Connecting via Winsock to STN

```
Welcome to STN International! Enter x:x
LOGINID:ssptasxm1624
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
* * * * * * * * *
                        Welcome to STN International
NEWS
                   Web Page for STN Seminar Schedule - N. America
NEWS 2 MAY 01
                   New CAS web site launched
NEWS
      3 MAY 08 CA/CAplus Indian patent publication number format defined
NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display
                   fields
NEWS 5 MAY 21
                   BIOSIS reloaded and enhanced with archival data
NEWS
       6 MAY 21
                   TOXCENTER enhanced with BIOSIS reload
NEWS
      7 MAY 21
                   CA/CAplus enhanced with additional kind codes for German
                   patents
NEWS 8 MAY 22
                  CA/CAplus enhanced with IPC reclassification in Japanese
                   patents
NEWS 9 JUN 27
                   CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10 JUN 29 STN Viewer now available
NEWS 11 JUN 29 STN Express, Version 8.2, now available
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LMEDLINE coverage updated
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names
NEWS 15 JUL 02 CHEMCATS accession numbers revised
NEWS 16 JUL 02 CA/CAplus enhanced with utility model patents from China
NEWS 17 JUL 16 CAplus enhanced with French and German abstracts
NEWS 18 JUL 18 CA/CAplus patent coverage enhanced
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20 JUL 30 USGENE now available on STN
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 24 AUG 13 CA/CAplus enhanced with additional kind codes for granted
                   patents
NEWS 25 AUG 20
                  CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 26 AUG 27
                   Full-text patent databases enhanced with predefined
                   patent family display formats from INPADOCDB
                   USPATOLD now available on STN
NEWS 27 AUG 27
NEWS 28 AUG 28 CAS REGISTRY enhanced with additional experimental
                   spectral property data
NEWS EXPRESS
               29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
                CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
NEWS HOURS
                STN Operating Hours Plus Help Desk Availability
NEWS LOGIN
                Welcome Banner and News Items
```

For general information regarding STN implementation of IPC 8

NEWS IPC8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 21:45:37 ON 31 AUG 2007

=> FIL REGISTRY COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 21:45:45 ON 31 AUG 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 AUG 2007 HIGHEST RN 945894-95-1 DICTIONARY FILE UPDATES: 30 AUG 2007 HIGHEST RN 945894-95-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

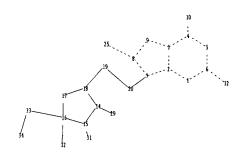
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\Stnexp\Queries\10524995.str



chain nodes :

10 12 19 20 25 29 31 32 33 34

ring nodes :

1 2 3 4 5 6 7 8 9 14 15 16 17 18

chain bonds :

4-10 6-12 7-20 8-25 14-29 15-31 16-32 16-33 18-19 19-20 33-34

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

G1:H,O,S,N,Cl,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

G3:C,N

G4:H,OH,CH3

G5:H,Cl,Br,F,I,OH,CH3

G6:H,O,S,CH3,OH,X

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 25:CLASS 29:Atom 31:CLASS 32:CLASS 33:CLASS 34:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STF

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> d 11

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> sl1 sam

SL1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s 11 sam

SAMPLE SEARCH INITIATED 21:46:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 805 TO ITERATE

100.0% PROCESSED

805 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

14398 TO 17802

PROJECTED ANSWERS:

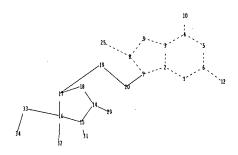
0 TO 0

L2

0 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10524995a.str



chain nodes :

10 12 19 20 25 29 31 32 33 34

ring nodes :

1 2 3 4 5 6 7 8 9 14 15 16 17 18

chain bonds :

4-10 6-12 7-20 8-25 14-29 15-31 16-32 16-33 17-19 19-20 33-34

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

containing 1 : 14 :

G1:H,O,S,N,C1,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

G3:C,N

G4:H,OH,CH3

G5:H,Cl,Br,F,I,OH,CH3

G6:H,O,S,CH3,OH,X

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 25:CLASS 29:Atom 31:CLASS 32:CLASS 33:CLASS 34:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 13 sam

SAMPLE SEARCH INITIATED 21:48:06 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 805 TO ITERATE

100.0% PROCESSED

805 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS:

14398 TO 17802

PROJECTED ANSWERS:

0 TO

L4

0 SEA SSS SAM L3

Uploading C:\Program Files\Stnexp\Queries\10524995b.str

chain nodes :

10 12 19 23 25 26 27 28 33

ring nodes :

1 2 3 4 5 6 7 8 9 14 15 16 17 18

chain bonds :

4-10 6-12 7-33 8-19 14-23 15-25 16-26 16-27 17-33 27-28

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

 $1-2 \quad 1-6 \quad 2-3 \quad 2-7 \quad 3-4 \quad 3-9 \quad 4-5 \quad 4-10 \quad 5-6 \quad 6-12 \quad 7-8 \quad 7-33 \quad 8-9 \quad 8-19 \quad 14-18$

14-15 14-23 15-16 15-25 16-17 16-26 16-27 17-18 17-33 27-28

isolated ring systems :
containing 1 : 14 :

G1:H,O,S,N,Cl,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

G3:C,N

G4:H,OH,CH3

G5:H,Cl,Br,F,I,OH,CH3

G6:H,O,S,CH3,OH,X

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 23:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS 33:Atom

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 15 sam

SAMPLE SEARCH INITIATED 21:49:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 110

116 TO ITERATE

0 ANSWERS

100.0% PROCESSED 116 ITERATIONS

SEARCH TIME: 00.00.01

SARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

1674 TO 2966

PROJECTED ANSWERS:

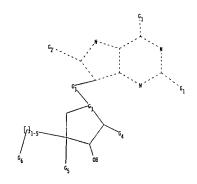
0 TO 0

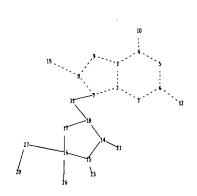
Page 7

L6 0 SEA SSS SAM L5

=>

Uploading C:\Program Files\Stnexp\Queries\10524995c.str





chain nodes :

10 12 19 23 25 26 27 28 33

ring nodes :

1 2 3 4 5 6 7 8 9 14 15 16 17 18

chain bonds :

4-10 6-12 7-33 8-19 14-23 15-25 16-26 16-27 18-33 27-28

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-10 5-6 6-12 7-8 7-33 8-9 8-19 14-18

14-15 14-23 15-16 15-25 16-17 16-26 16-27 17-18 18-33 27-28

isolated ring systems : containing 1 : 14 :

G1:H,O,S,N,C1,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

G3:C,N

G4:H,OH,CH3

G5:H,Cl,Br,F,I,OH,CH3

G6:H,O,S,CH3,OH,X

Page 8

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 23:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS 33:Atom

L7 STRUCTURE UPLOADED

STR

=> d 17

L7 HAS NO ANSWERS

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 17 sam

SAMPLE SEARCH INITIATED 21:50:46 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 116 TO ITERATE

100.0% PROCESSED 116 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

1674 TO 2966

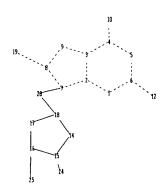
PROJECTED ANSWERS:

0 TO

 $rac{1}{8}$ 0 SEA SSS SAM L7

=>

Uploading C:\Program Files\Stnexp\Queries\10524995d.str



chain nodes :

10 12 19 24 25 28

ring nodes :

1 2 3 4 5 6 7 8 9 14 15 16 17 18

chain bonds :

4-10 6-12 7-28 8-19 15-24 16-25 18-28

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

14-15 15-16 15-24 16-17 16-25 17-18 18-28

isolated ring systems :
containing 1 : 14 :

G1:H,O,S,N,C1,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

G3:C,N

G4:H,OH,CH3

G5:H,Cl,Br,F,I,OH,CH3

G6:H,O,S,CH3,OH,X

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 24:CLASS 25:CLASS 28:Atom

Page 10

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 19 sam

SAMPLE SEARCH INITIATED 21:51:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 165 TO ITERATE

0 ANSWERS

100.0% PROCESSED 165 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS:

2530 TO 4070

PROJECTED ANSWERS:

0 TO (

L10

0 SEA SSS SAM L9

=>

Uploading C:\Program Files\Stnexp\Queries\10524995z.str

61 61 M

chain nodes :
10 12 14 18
ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-10 6-12 7-18 8-14

10

10524995.trn

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-10 5-6 6-12 7-8 7-18 8-9 8-14

isolated ring systems :

containing 1:

G1:H,O,S,N,Cl,Br,F,I,CH3

G2:X,C,Cy,OH,S,N

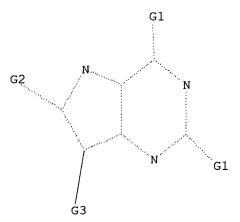
G3:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 12:CLASS 14:CLASS 18:CLASS

L11 STRUCTURE UPLOADED

=> d 111 L11 HAS NO ANSWERS L11 STR



G1 H,O,S,N,Cl,Br,F,I,Me G2 X,C,Cy,OH,S,N G3 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 111 sam
SAMPLE SEARCH INITIATED 21:53:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1105 TO ITERATE

100.0% PROCESSED 1105 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 20106 TO 24094 PROJECTED ANSWERS: 1486 TO 2714

L12 50 SEA SSS SAM L11

=> s 111 full

FULL SEARCH INITIATED 21:54:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 22594 TO ITERATE

100.0% PROCESSED 22594 ITERATIONS 1989 ANSWERS

SEARCH TIME: 00.00.01

L13 1989 SEA SSS FUL L11

=> fil capl

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 177.95 178.16

FILE 'CAPLUS' ENTERED AT 21:54:04 ON 31 AUG 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 31 Aug 2007 VOL 147 ISS 11 FILE LAST UPDATED: 30 Aug 2007 (20070830/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 113

L14 67 L13

=> s 114 and (py>2004 or ay>2004 or pry>2004)

3526671 PY>2004

652472 AY>2004

496281 PRY>2004

=> s 114 and (py<2004 or ay<2004 or pry<2004) 23934638 PY<2004 4740271 AY<2004

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4222276 PRY<2004
L16
       60 L14 AND (PY<2004 OR AY<2004 OR PRY<2004)
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       525553 2007/so
       876632 2006/so
       876648 2005/so
      847842 2004/so
       1499 SO/SO
       369433 R/SO
       781328 2003/so
            0 2004/SO R 2003/SO
              ((2004(W)SO(W)R(W)2003)/SO)
L17
          60 L16 NOT (2007/SO OR 2006/SO OR 2005/SO OR 2004/SO R 2003/SO)
=> d 116 ibib hitstr abs 1-60
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L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
2005:182664 CAPLUS
142:280221
Preparation of pyrrolopyrimidinone derivatives as
GSK-3 inhibitors
TSutsumi, Takaharur Sugiura, Satoshir Koga, Masahiror
Matsumoto, Yoshiyukir Ishii, Toshihiror Nakano, Akirar
Unoki, Gen Sakai, Yuri: Takarada, Reiko: Ogawa,
Hiroko

Onor, Gen Sakal, Idil Tak. Hiroko Teijin Pharma Limited, Japan PCT Int. Appl., 419 pp. CODEN: PIXXD2 Patent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	ENT :	NO.					DATE			APPL	ICAT	ION	NO.		D.	ATE	
WO	WO 2005019219				A1 20050303			0303	WO 2004-JP12692					20040826 <~~			
	W:										BG,						
											EC,						
											JP,						
											MK,						
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	2W
	RW:										SL,						
											BE,						
											LU,						
					BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	G₩,	ML,	MR,	NE,
			TD,														
AU.	2004	2669	75		A1 20050303			AU 2004-266975 CA 2004-2536887				20040826 <					
CA	2536	897			A1		2005	0303		CA 2	004-	2536	887		21	30408	926 <
	2005153992				A1												
EP	1661				Αl												826 <
	R:													NL,	SE,	MC,	PT,
											ΗU,						
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BR	2004	0138	21		А		2006	1024									826 <
CN	1871 2006 2006	240			Α		2006	1129									826 <
NO	2006	0005	38		A		2006	0324			006-						202 <
MX	2006	PA02	001		Α		2006	0620			006-						221 <
PRIORIT	Y APP	LN.	INFO	.:							003-						826 <
											004-					0040	
											003-						902 <
											004-					0040	
										¥O 2	004-	JP12	692	,	¥ 21	00408	826

OTHER SOURCE(S): MARPAT 142:280221 IT 846570-57-8P 846570-58-9P 846570-59-0P 846570-60-3P 846570-73-8P 846570-76-1P 846570-77-2P 847137-85-3P

84057U-/I-ZP 84/IJ/-85-JP RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of pyrrolopyrimidinone derivs. as GSK-3 inhibitors) 846570-57-8 CAPLUS

ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Carbamic acid, [2-(7-amino-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-73-8 CAPLUS Acetamide, N-[5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-1H-pyrcolo[3,2-d]pyrimidin-7-yl]-2,2,2-trifluoro-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

846570-76-1 CAPLUS Carbamic acid, [2-[7-{benzoylamino}-6-{3-chloro-2-thienyl}-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-77-2 CAPLUS

Benzamide, N-(5-(2-aminoethy1)-6-(3-chloro-2-thieny1)-4,5-dihydro-4-oxo-H-pyrrolo[3,2-d]pyrimidin-7-y1]-, monohydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Carbamic acid, (2-[7-{aminocarbonyl}-6-(3-chloco-2-thienyl)-1,4-dihydro-4oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

846570-58-9 CAPLUS Carbamic acid, [2-[7-(aminocarbonyl)-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-59-0 CAPLUS Carbamic acid, [2-[7-amino-6-[3-chloro-2-thienyl]-1,4-dihydro-4-oxo-5H pyrrolo[3, 2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester [9CI] (NDEX NAME)

846570-60-3 CAPLUS

ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● HC1

847137-85-3 CAPLUS
Benzamide, N-[5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl}- (9CI) (CA INDEX NAME)

846570-72-7P 846570-74-9P 846570-78-3P
847273-43-2P 847273-44-3P 847273-45-4P
847273-60-3P 847274-71-9P 847274-72-0P
847274-73-1P 847274-74-2P 847274-75-3P
847274-73-1P 847274-78-0-0P 847274-73-1P
847274-97-PP 847274-80-0P 847274-81-1P
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847274-82-2P 847274-83-3P 847274-84-4P
847274-82-2P 847274-83-3P 847274-84-4P
847274-82-2P 817274-83-1P 8101 (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrrolopyrimidinone derivs. as GSK-3 inhibitors)
846570-72-7 CAPLUS
Carbamic acid, [2-[6-(3-chloco-2-thlenyl)-1,4-dihydro-4-0x0-7-([trifluoroacetyl)amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-74-9 CAPLUS
Benzamide, N-[2-[6-(3-chloro-2-thieny1)-1,4-dihydro-4-oxo-7[(trifluoroacety1)amino]-5H-pyrrolo[3,2-d]pyrimidin-5-y1]ethy1]-4-fluoro[OCI) (CA INDEX NAME)

846570-78-3 CAPLUS Benzamide, N-[6-[3-chloro-2-thieny1)-4,5-dihydro-4-oxo-5-[2-[4-quinazolinylamino)ethyl]-1H-pyrrolo[3,2-d]pyrimidin-7-y1]- (9CI) (CA INDEX NAME)

847273-43-2 CAPLUS Benzamide, N-[2-[7-(benzoylamino)-6-(3-chloro-2-thlenyl)-1,4-dihydro-4-SH-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

847273-60-3 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thieny1)-1,4-dihydro-4-0xo-7-(trifluoromethyl)-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-71-9 CAPLUS
Carbamic acid, [2-[6-(3-chloro-2-thienyl)-1,4-dihydro-7-methyl-4-oxo-5Hpyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA
INDEX NAME)

847274-72-0 CAPLUS Carbamic acid, (2-(6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-7-(phenylmethyl)-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

847273-44-3 CAPLUS
Carbamic acid, [2-[6-(3-chloro-2-thienyl)-7-ethenyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847273-45-4 CAPLUS Carbamic acid, [2-{6-(3-chloro-2-thienyl)-1,4-dihydro-7-(3-hydroxy-1-propynyl)-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl}-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 847274-73-1 CAPLUS
CN Carbamic acid, (2-(6-(3-chloro-2-thienyl)-7-(1E)-1-hexenyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

847274-74-2 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thienyl)-7-ethynyl-1,4-dihydro-4-oxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-75-3 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thienyl)-7-(1-hexynyl)-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-76-4 CAPLUS
Carbamic acid, [2-(7-[(1-aminocyclohexyl)ethynyl]-6-(3-chloro-2-thienyl)1,4-dihydco-4-oxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl}-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-77-5 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thienyl]-1,4-dihydro-4-oxo-7-(phenylethynyl)-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl eth [9CI] (CA INDEX NAME)

847274-78-6 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thienyl)-7-[(2-fluorophenyl)ethynyl]-1,4-dihydro-4-xoa-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethylester (9CI) (CA INDEX NAME)

847274-79-7 CAPLUS
Carbamic acid, {2-{6-(3-chloro-2-thieny1)-1,4-dihydro-7-[(4-methoxypheny1)ethyny1}-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1]ethyl]-,

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyridinylethynyl)-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-83-3 CAPLUS
Carbamic acid, [2-(7-(3-amino-3-ethyl-1-pentynyl)-6-(3-chloro-2-thienyl)-1,4-dihydco-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl}-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-84-4 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thieny1)-7-(cyclohexylethyny1)-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethylester [9CI) (CA INDEX NAME)

847274-85-5 CAPLUS
Carbamic acid, [2-[6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-7[(trimethylailyl)ethynyl]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Page 17

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} 0 \\ \text{t-BuO-C-NH-CH}_2\text{-CH}_2 \\ \\ 0 \\ \text{N} \\ \\ \text{N} \\ \\ \text{N} \\ \\ \text{C} \\ \text{C} \\ \\ \text{C} \\ \\ \text{OMe} \\ \end{array}$$

847274-80-0 CAPLUS Carbamic acid, [2-[7-[[4-aminophenyl]ethynyl]-6-(3-chloro-2-thienyl)-1,4-dihydro-4-xou-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-81-1 CAPLUS Carbamic acid, [2-[7-[(2-chlorophenyl)ethynyl]-6-(3-chloro-2-thienyl)-1,4-dihydro-4-xoo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847274-82-2 CAPLUS Carbamic acid, [2-[6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-7-(3-

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

846570-56-7 847277-93-4
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of pyrrolopyrimidinone derivs. as GSK-3 inhibitors)
846570-56-7 CAPLUS
Carbamic acid. [2-(7-cyano-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

847277-93-4 CAPLUS Benzamade, N-[2-[6-(3-chloro-2-thienyl)-7-[[(dimethylamino)methylene]amino]-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI)(CA INDEX NAME)

587856-29-9P 847278-04-0P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of pyrcolopyrimidinone derivs. as GSK-3 inhibitors)
587856-29-9 CAPLUS
Carbamic acid, [2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-oxo-5Hpyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA
INDEX NAME)

847278-04-0 CAPLUS
Benzamide, N-[2-[4-chloro-6-(3-chloro-2-thienyl)-7[[(dimethylamino)methylene]amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4fluoro- (9CI) [CA INDEX NAME)

GI

$$R^{3}-A^{6}$$
 $R^{2}-A^{5}$
 N
 NH
 A^{1}
 $A^{2}-G^{1}-A^{3}-A^{4}-G^{2}$
 NH

AB The title compds. I [Al and A3 each is a single bond or an aliphatic hydrocarbon: A2 and A4 each is a single bond, CO, COO, etc.; G1 is a single bond, alicyclic hydrocarbon, aromatic hydrocarbon, etc.; G2 is hydrogen, an aliphatic hydrocarbon, alicyclic hydrocarbon, aromatic hydrocarbon, aromatic hydrocarbon, etc.; A5 is a single bond or NR: R2 is hydrogen, halogeno, an aliphatic hydrocarbon, etc.; A6 is a single bond, NR, CO, etc.; and R3 is hydrogen, halogeno, nitro, a saturated aliphatic hydrocarbon, etc.; R is hydrogen lower aliphatic hydrocarbon group] are prepared. Thus, treatment of

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:182663 CAPLUS
100CUMENT NUMBER: 142:261554
Preparation of pyrrolopyrimidinethione derivatives having GSK-3 inhibitory activity
Toutsumi, Takaharus Sugiura, Satoshir Koga, Masahiro: Matsumoto, Yoshiyuki: Ishii, Toshihiro: Nakano, Akira: Unoki, Gen: Sakai, Yuri: Takarada, Reiko: Ogawa, Hiroko

Teijin Pharma Limited, Japan PCT Int. Appl., 274 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

DOCUMENT TYPE: Patent

LANGUAGE:

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		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW.	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	Z₩,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR.	NE,
		SN,	TD,	TG													
US 2	0051	5399	92		A1		2005	0714		US 2	004~	9286	00		2	0040	826 <
EP 1	6618	96			A1		2006	0531		EP 2	004-	7726	46		2	0040	826 <
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT.	LI.	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK				
US 2	0061	608	31		A1		2006	0720		US 2	004~	9289	69		2	0040	826 <
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										JP 2	004-	1000	22		A 2	0040	330
										US 2	003~	4990	71P	1	2 2	0030	902 <
	•										004-						
										WO 2	004-	JP12	690	1	20	0040	826
OTHER SOURCE(S): MARPAT 142:261554																	
IT 846570-03-4P 846570-04-5P																	
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic																	
preparation): THU (Therapeutic use): BIOL (Biological study): PREP																	
(Preparation): RACT (Reactant or reagent): USES (Uses)																	

(Freparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyrcolopyrimidinethione derivs. as GSK-3 inhibitors for
treatment of diabetes, inflammation, etc.)
846570-03-4 CAPLUS
Benzamide, N-(2-[6-(3-chloro-2-thienyl)-1, 4-dihydro-4-thioxo-7[trifluoroacatyl)amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro[9CI) (CA INDEX NAME)

L16 ANSWER 1 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
tert-butoxy-N-[2-[6-(3-chloro-2-thienyl)-7-iodo-4-oxo-3-hydropyrrolo[3,2-d)pyrinidin-5-yl]ethyl]carboxamide with HCl in methanol and 1,4-dioxane at 60°C for 2 h gave 5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-7-iodo-3-hydropyrrolo[3,2-d]pyrinidin-4-one HCl salt. In an in vitro assay for GSX-3 (glycogen synthase kinase-3) inhibiting activity, 104 compds. of this invention showed IC50 values < 20 mM. A formulation is given.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

846570-04-5 CAPLUS
Benzamide, N-[2-[7-amino-6-(3-chloro-2-thienyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INOEX NAME)

846570-05-6P 846570-06-7P 846570-07-8P 846570-08-9P 846570-08-9P 846570-09-0P 846570-15-8P 846570-16-9P 846570-19-19-19-19-19-846570-18-1P 846570-18-1P 846570-12-6P 846570-22-7P 846570-20-5P 846570-21-6P 846570-22-7P 846570-22-8P 846570-22-P 846570-23-8P 846570-24-9P 846570-29-3P 846570-23-8P 846570-29-1P 846570-39-1P 846570-39-39-8P 846570-39-7P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-39-8P 846570-49-8P 846570-

(Uses)
{preparation of pyrrolopyrimidinethione derivs. as GSK-3 inhibitors for treatment of diabetes, inflammation, etc.)
\$46570-05-6 CAPLUS
Benzamide. N-[2-[7-(benzoylamino)-6-(3-chloro-2-thienyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 846570-06-7 CAPLUS

Benzamide, N-[2-[6-(3-chloro-2-thienyl)-1,4-dihydro-7[(phenylmethyl)amino]-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4fluoro- (9CI) (CA INDEX NAME)

RN 846570-07-9 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thlenyl)-1,4-dihydro-7[[(phenylamino)ocarbonyl]amino]-4-thloxo-5H-pyrcolo[3,2-d]pyrimidin-5yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 846570-08-9 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-[(E)[(dimethylamino)methylene]amino]-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 846570-16-9 CAPLUS

Benzamide, N-[2-[6-(3-chloro-2-thienyl)-1,4-dihydro-7[(hydroxyacetyl) amino]-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4fluoro- (9CI) (CA INDEX NAME)

RN 846570-17-0 CAPLUS

Benzamide, N-{2-[5-(3-chloro-2-thienyl)-1,4-dihydro-7[(methoxyacetyl) amino]-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}ethyl]-4fluoro- (9CI) (CA INDEX NAME)

RN 846570-18-1 CAPLUS Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-[{(dimethylamino)acetyl}amino]-1,4-dihydro-4-thioxo-5H-pyrrolo{3,2-d}pyrimidin-5-yl}ethyl}-4-fluoro-(9CI) (CA INDEX NAME) L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.

RN 846570-09-0 CAPLUS
CN Benzamide, N-[6-(3-chloro-2-thienyl)-4,5-dihydro-5-[2-(4-quinazolinylamino|ethyl]-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

RN 846570-15-8 CAPLUS
CN Benzamide, N-{2-{7-(acetylamino)-6-(3-chloro-2-thienyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 846570-19-2 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-[(cyclopropylcarbonyl)amino]-1,4-dihydro-4-thioxoo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI)
(CA INDEX NAME)

RN 846570-20-5 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-[(cyclopentylcarbonyl)amino]-1,4-dhydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI)(CA INDEX NAME)

 $\begin{array}{lll} 846570-21-6 & CAPLUS \\ Benzamide, & N-\{2-\{6-(3-chloro-2-thienyl)-7-\{(cyclohexylcarbonyl\}amino]-1,4-dihydro-4-thioxo-5H-pyrrolo\{3,2-d\}pyrimidin-5-yl\}ethyl\}-4-fluoro- \\ & (CA INDEX NAME) \\ \end{array}$

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

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846570-24-9 CAPLUS
2-Furancarboxamide, N-(6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl) amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

846570-22-7 CAPLUS 2-Maphthalenecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl)amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (GCI) (CA INDEX NAME)

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846570-23-8 CAPLUS
1-Naphthalenecarboxamide, N-[6-(3-chloro-2-thienyl)-5-{2-[4-fluorobenzoyl)amino]ethyl]-4,5-dihydro-4-thioxo-lH-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-25-0 CAPLUS
2-Thiophenecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl)amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrcolo[3,2-d]pyrimidin-7-yl]- (OZ INDEX NAME)

846570-26-1 CAPLUS 2-Pyridinecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl)amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl)- (GCI) (CA INDEX NAME)

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846570-27-2 CAPLUS
3-Pyridinecarboxamide, N=[6-(3-chloro-2-thienyl)-5-[2-[4-floroobenzoyl) amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (GCI INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 1-A

846570-29-4 CAPLUS
Benzeneacetamide, N-[6-(3-chloro-2-thieny1)-5-[2-[(4-fluorobenzoy1)amino]ethy1)-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-y1]- (9CI) (CA INDEX NAME)

846570-30-7 CAPLUS
Benzenepropanamide, N-(6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl) amino]ethyl]-4,5-dihydro-4-thioxo-IH-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

846570-28-3 CAPLUS
4-Pyridinecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[(4-fluorobenzoyl)amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (GCI NDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-32-9 CAPLUS
Benzenecarbothioamide, N-[2-[6-(3-chloro-2-thienyl)-1,4-dihydro-7[(phenylmethyl)amino)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4fluoro- (9CI) (CA INDEX NAME)

846570-33-0 CAPLUS
Benzenecarbothioamide, N-[2-[6-(3-chloro-2-thienyl)-1,4-dihydro-7[([phenylamino]carbonyl]amino]-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

846570-34-1 CAPLUS Acetamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

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L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-35-2 CAPLUS
Acetamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d)pyrimidin-7-yl]-2-hydroxy- (9C1) (CA INDEX NAME)

846570-36-3 CAPLUS Acetamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-lH-pyrrolo[3,2-d]pyrimidin-7-yl]-2-methoxy- (9CI) (CA INDEX NAME)

 $846570-37-4 \quad CAPLUS \\ Acetamide, \quad N-\{6-\{3-chloro-2-thienyl\}-5-\{2-\{\{4-fluorophenyl\}\,thioxomethyl\}\,amino]\,ethyl]-4,5-dihydro-4-thioxo-lH-pycrolo\{3,2-fluorophenyl\}-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-1-pycrolo[3,2-fluorophenyl]-4,5-dihydro-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-thioxo-4-$

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-40-9 CAPLUS Cyclohexanecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) d]pyrimidin-7-y1]-2-(dimethylamino)- (9CI) (CA INDEX NAME)

846570-38-5 CAPLUS Cyclopropanecarboxamide, N-[6-[3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

846570-39-6 CAPLUS
Cyclopentanecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl)anino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-41-0 CAPLUS 2-Naphthalenecotoxamide, N-[6-(3-chloro-2-thieny1)-5-[2-[[(4-fluoropheny1)thioxomethy1]amino]ethy1]-4,5-dihydro-4-thioxo-lH-pyrrolo[3,2-d]pyrimidin-7-y1]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

846570-42-1 CAPLUS
1-Maphthalenecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

846570-43-2 CAPLUS
2-Furancarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-lH-pycrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) fluorophenyl)thioxomethyl]amino|ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

846570-46-5 CAPLUS
2-Pyridinecarboxamide, N-[6-(3-chloro-2-thienyl)-5-(2-[[4-fluorophenyl]thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9Cl) (CA !NOEX NAME)

PAGE 1-A

PAGE 2-A

RN 846570-47-6 CAPLUS CN 3-Pyridinecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN . (Continued)

846570-44-3 CAPLUS
2-Thiophenecarboxamide, N-[6-(3-chloro-2-thieny1)-5-[2-[[(4-fluoropheny1) thioxomethy1]amino]ethy1]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-y1]- (9CI) (CA INDEX NAME)

846570-45-4 CAPLUS Benzamide, N-{6-(3-chloco-2-thienyl)-5-[2+{{4-

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) fluorophenyl)thioxomethyl]amino|ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

846570-48-7 CAPLUS
4-Pyridinecarboxamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

846570-49-8 CAPLUS
Benzeneacetamide, N-[6-(3-chloro-2-thienyl)-5-[2-[[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

846570-50-1 CAPLUS

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-57-8 CAPLUS
Carbamic acid, [2-{7-(aminocarbonyl)-6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-58-9 CAPLUS
Carbamic acid, [2-{7-{aminocarbonyl}-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pycimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-59-0 CAPLUS
Carbamic acid, [2-[7-amino-6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Senzenepropanamide, N-[6-(3-chloro-2-thienyl)-5-[2-[(4-fluorophenyl)thioxomethyl]amino]ethyl]-4,5-dihydro-4-thioxo-1H-pyrrolo(3,2-d)pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

587856-29-9P 846570-56-7P 846570-57-8P
846570-58-9P 846570-59-0P 846570-60-3P
846570-72-7B 846570-73-8P 846570-74-9P
846570-75-0P 846570-76-1P 846570-77-2P
846570-78-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or ceagent) (preparation of pyrrolopyrimidinethione derivs. as GSK-3 inhibitors for treatment of diabetes, inflammation, etc.)
587856-29-9 CAPLUS
Carbamic acid, [2-[6-{3-chloro-2-thienyl}-7-cyano-1,4-dhydro-4-oxo-5H-pyrrolof3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-56-7 CAPLUS

Carbamic acid, [2-(7-cyano-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

846570-60-3 CAPLUS
Carbamic acid, [2-(7-amino-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-72-7 CAPLUS
Carbamic acid, [2-[6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-7[(trifluoroacetyl)amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-,
1,1-dimethylethyl ester {9Cl} (CA INDEX NAME)

846570-73-8 CAPLUS Acetamide, N-(5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]-2,2,2-trifluoro-, monohydrochloride (9CI) (CA INDEX NAME)

• HCl

846570-74-9 CAPLUS
Benzamide, N-[2-[6-(3-chloro-2-thienyl]-1,4-dihydro-4-oxo-7[(trifluoroacetyl)amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro[OCI) (CA INDEX NAME)

846570-75-0 CAPLUS
Benzamide, N-[2-{4-chloro-6-(3-chloro-2-thienyl)-7-[(E)-[(dimethylamino))methylene]amino]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I $\{A1 = \text{single bond, etc.: } A2 = \text{single bond, etc.: } G1 = \text{single bond, etc.: } A3 = \text{single bond, etc.: } A4 = \text{single bond, etc.: } G2 = H,$ $\{un\} \text{substituted aliphatic hydrocarbon, etc.: } A5 = \text{single bond, NR201: } R201 = H,$ aliphatic hydrocarbon: A6 = single bond, etc.: R2 = H, F, etc.: R3 = H.

etc.] were prepared For example, acylation of 5-(2-aminoethyl)-6-(3-chlorothien-2-yl)-7-iodo-3-hydropyrrolo[3,2-d]pyrimidin-4-thione-CF3CO2H with 4-fluorobenzoyl chloride afforded compound II in 47h yield. In GSK-3 (glycogen synthase kinase-3) enzyme inhibition assays, the IC50 value of compound II was <100 nM. Compds. I are claimed useful as GSK-3 inhibitors for the treatment of diabetes, inflammation, etc. Formulation is given.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

846570-76-1 CAPLUS Carbamic acid, [2-[7-(benzoylamino)-6-(3-chloro-2-thienyl)-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

846570-77-2 CAPLUS
Benzamide, N-[5-(Z-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-lH-pyrcolo[3,2-d]pyrimidin-7-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

846570-78-3 CAPLUS Benzamide, N-[6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-5-[2-(4-quinazolinylamino)ethyl]-1H-pyrrolo[3,2-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

L16 ANSWER 3 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:1082029 CAPLUS COCCUMENT NUMBER: 142:56345 Frocess for the preparation of 9-deazaguanine derivatives

derivatives
Elliott. Arthur J.: Walsh, David A.: Morris, Philip E.
Biocryst Pharmaceuticals, Inc., USA
U.S. Pat. Appl. Publ., 26 pp., Cont.-in-part of U.S.
Ser. No. 762,832, abandoned.
CODEN: USXXCO INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
		~~~~~~		-	
US 2004254181	A1	20041216	US 2004-878035		20040629 <
US 6946554	B2	20050920			
PRIORITY APPLN. INFO.:			US 1996-762832	В1	19961210 <
OTHER SOURCE(S):	CASREA	ACT 142:56345	MARPAT 142:56345		
IT 192653-69-3P					

19265.3-69-3P RE: SPN (Synthetic preparation); PREP (Preparation) (process for preparation of 9-deazaguanine derivs. via cyclization of quanidinylpyrrolecarboxylates) 192653-69-3 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2-amino-1,5-dihydro-6-methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)

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L16 ANSWER 3 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

AB Derivs. of 9-deazaguanine (I) [wherein X = (un)substituted Ph or naphthyl, S- or 6-member heterocyclic group having one N, S, or 0 atom, alicyclic group selected from the group consisting of cycloparaffins and cycloolerins having up to 9 carbon atoms, group represented by the formula RS(CA687)a(Y)b(CH2)c-W) RS = (un)substituted cyclic group wherein said cyclic group is selected from the group consisting of aromatic, heteroarom., alicyclic and heteroalicyclic groups having five to nine atoms and containing one or more heteroatoms selected from the group consisting of 0, N and S; R6, R7 = H, Cl-4 alkyl; a = 0-4; b = 0-6; c = 0, 1; V = cyano, CSNH2, P0(OH)2, CO2H, SCNH2, CH2, OH, COMNH2, tetracolyl, triazolyl, CO38; R8 = Cl-4 alkyl, CF3, NH2, Cl-4 alkoxy; V = 0, NH; Q = H, Cl-3 alkyl, CF3, Ph) are prepared by reacting an aldehyde or ketone of formula QCOCH(CH2X)(N) (Q, X = same as above) with a dialkylaminomalonate to form the corresponding enamine. The enamine is then reacted with a base to form a cyclic pyrrole (II) (Q, X = same as above: R2 = Cl-4 alkyl). The cyclic pyrrole II is reacted with an urea compound of formula R3OCON:C(R1)NHCO2R3 (R3 = Cl-4 alkoxy) or a derivative of carbamimidoic acid of formula
R10CON:C(R1)NHCO2R10
[R10 = (un)substituted Ph; R11 = Cl-4 alkoxy] to provide a protected guanidino compound (III) or (IV) (Q, X, R2, R3, R10, R11 = same as above). The guanidino III or IV is converted to the desired 9-deazaguanine derivative
I by reacting with trifluoroacetic acid or with an alkoxide or hydroxide followed by neutralization with an acid. Thus. 3: (2-novidyllaconic) in the correspondicy is a converted to the desired 9-deazaguanine followed by neutralization with an acid. Thus. 3: (2-novidyllaconic) in the correspondicy is a converted to the desired 9-deazaguanine followed by neutralization with an acid. Thus. 3: (2-novidyllaconic) in the correspondicy is a converted to the desired 9-deazaguanine followed by neutralization with an acid. Thus. 3: (2-novidyllaconic) in the correspondicy is a c

vative
I by reacting with trifluoroacetic acid or with an alkoxide or hydroxide followed by neutralization with an acid. Thus, 3-(2-pyridyl)propionitrile was added to a suspension of NaH in THP, treated dropwise with Et formate over 3 h and 10 min, and stirred overnight to give 101% 2-cyano-3-(2-pyridyl)propionaldehyde sodium enolate which was added to MeOH and 1820 under ice-cooling, treated with di-Et aminomalonate hydrochloride, adjusted to pH .apprx.6.5 with 6 N HCl, and stirred for 15 h to give di-Et [(2-cyano-2-(2-pyridyl)enthyl)vinyl]amino]malonate (V). V was dissolved in MeOH and stirred with ice-bath cooling while 25 weight NaOMe solution in MeOH (12.7 mL 55.47 mmol) was added, and the the dark

brown
mixture was stirred at room temperature for 2 days to give 3-amino-4-[(2pyridyl)methyl]-IH-pyrcole-2-carboxylic acid Me ester(VI). VI,
N,N'-bis(carbomethoxy)-5-methylisothiourea, and Et3M were stirred together
in McCN, and treated with mercuric chloride upon which an immediate
precipitate
was observed, and the mixture was stirred at room temperature for 16 h to
nive

 $3-[N,N'-bis(carbomethoxy)] \ uanidinyl]-4-(phenylmethyl)-1H-pyrrole-2-carboxylic acid Me ester (VII). VII, NaOMe, and MeOH were stirred together and boiled under ceflux for 16 h, evaporated in vacuo, and treated with aqueous AcOH to give 70% 2-amino-7-[(2-pyridyl)methyl]-4-oxo-3H,5H-pyrrolo[3,2-d]pyrimidine.$ 

L16 ANSWER 4 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

GI

The title compds. I [W = N or CR1; R1 = H, halo, trihaloalkyl, CN, NH2, NO2, OR6, N=CNA6R7, N(R6)C(=NR8)NR6R7, SR6, S(O)1-2R6, SO2NR6R7, CO2R6, etc.; L = O, S(O)0-2, or NR3; Q = C or N, when Q = N, then R4 does not exist; R2, R3 = H or R7; R4, R5 = H, OR6, NR6R7, S(O)0-2R6, SO2NR6R7, CO2R6, C(O)R6R7, N(R6)SO2R6, N(C(O)2R6, C(O)R7, CN, NO2, NH2, halo, trihaloalkyl, R7; or R4, R5 when taken together, form a five or six-membered aromatic ring containing O-2 N; R6, R7 = H, (substituted) (aryl)alkyl, (substituted) heterocyclylalkyl, expositived) (aryl)alkyl, (substituted) heterocyclyl, with proviso or R6, R7 = when taken together with a common N to which they are attached, form a five to seven-membered heterocyclic ring containing at least one addnl. heteroatom selected from N, O, S, or P; R8 = H, NO2, CN, OR6, or (substituted)alkyl; X = (substituted) heterojaromatic ring; K = O, S, (substituted) alkyl; X = (substituted) heterojaromatic ring; K = O, S, (substituted) aminol were prepared as kinase modulators to treat kinase-dependent diseases and conditions. For example compound II was prepared in a multi-step synthesis starting from 4-methylimidazole. The latter inhibited KDR and EGFR with ICSO < 50 nM.

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L16 ANSWER 4 OF 60
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVENTOR(S):

PATENT ASSIGNEE(S):

PATENT ASSIGNEE(S):

POCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
DOCUMENT TYPE:
PATENT TYPE:
LANGUAGE:
PATENT ACCOUNT:
PATENT TYPE:
DOCUMENT TYPE:
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LANGUAGE:
PATENT TYPE:
LANGUAGE:
LANG DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO.

WO 2004050681 A2 20040617 WO 2003-US36567 20031114 <-WO 2004050681 A3 20041104

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GM, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, GS, KS, LS, YT, JT, MM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RY: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
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CA 2506546 A1 20040617 CA 2003-250546 20031114 <-EP 1581309 A2 20051005 EP 2003-812437 20031114 <-EP 1581309 A2 20051005 EP 2003-812437 20031114 <-EP 1581309 A2 20051005 EP 2003-812437 20031114 <-ER: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
LE, SI, LT, LY, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
JP 2006510727 T 20060330 JP 2004-570758 20050502 <-US 2003-470674P P 200305114 <-WO 2003-US36567 W 20031114 US 2006122171 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 141:54195

IT 705947-08-6P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxindole derivs. as kinase modulators)

RN 705947-08-6 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 6,7-dihydro-2-[[1-(2-methoxyethyl)-4-piperidinyl]amino]-6-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 4 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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10524995.trn
L16 ANSWER S OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2003:719265 CAPLUS DOCUMENT NUMBER: 139:240337
TITLE: Pln1 peoplets
                                                                                      139:240337
Pinl peptidyl prolyl isomerase-modulating compounds and methods of use in the treatment of cancer and other Pinl-associated conditions
Mckee, Timothy D.; Suto, Robert K.
Pintex Pharmaceuticals, Inc., USA
PCT Int. Appl., 105 pp.
CODEN: PIXXO2
  INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
 DOCUMENT TYPE:
                                                                                       Patent
  LANGUAGE:
                                                                                     English
1
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                      APPLICATION NO.
                                                                                       KIND
A2
A3
                  PATENT NO.
                                                                                                             DATE
                                                                                                                                                                                                                                      DATE
                 WO 2003073999
WO 2003073999
                                                                                                              20030912
                                                                                                                                                      WO 2003-US6399
                                                                                                                                                                                                                                      20030303 <--
               W2 2003073999 A3 20031231

W1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, CM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, NA, MO, MG, MK, MN, MM, MX, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW1 GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, CA, GN, CQ, GW, ML, NR, NE, SN, TD, TG

AU 2003217870 A1 20030916 AU 2003-217870 20030030 <--

RITY APPLN, INFO: US 2002-3178404 200300303 <--

TR SOURCE(S): MARPAT 139:240337
                                                                                                               20031231
 PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 139:240337

IT 383161-28-2 383161-28-2D, derivs.
RL: PAC (Pharmacological activity): THU (Therapeutic use): BIOL (Biological study): USES (Uses)
(Pinl peptidy) USES (Uses)
(Pinl peptidy) prolyl isomerase-modulating compds. for treatment of cancer and other Pinl-associated conditions)

RN 383161-28-2 CAPLUS
CN H-Pyrrolo[3,2-d] pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-phenyl- (9CI) (CA INDEX NAME)
                  383161-28-2 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-phenyl- (9CI) (CA INDEX NAME)
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L16 ANSWER 6 OF 60
ACCESSION NUMBER:
DOCUMENT NUMBER:
2003:678811 CAPLUS
139:21482
Preparation of pyrrolopyrimidine derivatives as GSX-3
inhibitors
INVENTOR(S):

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Unoki, Gen; Yamamoto, Masanori; Sakai, Yuri
Tejin Limited, Japan
PCT Int. Appl., 568 pp.
CODEN: PIXXO2
DOCUMENT TYPE:
Patent
Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
          PRIORITY APPLN. INFO .:
OTHER SOURCE(5): MARPAT 139:214482

IT $87857-21-4P $87857-22-5P
RL: PAC (Pharmacological activity): RCT (Reactant): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): RACT (Reactant or reagent): USES (Uses)
(drug candidate; preparation of pyrrolopyrimidine derivs. as GSK-3 inhibitors)

RN $87857-21-4 CAPLUS

NB-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-bromo-4,5-dihydro-4-oxo-(CA INDEX NAME)
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The invention discloses modulators, e.g., inhibitors of Pinl and Pinl-related proteins, and the use of such modulators for treatment of Pinl-associated states, e.g., for the treatment of cancer. Compds. of the invention include I [dashed lines = single or double bonds: GI = CH, N: C2, G3 = H, N, CH2, CH, NH: R1, R2, R3, R3', R4, R4', X1-X5 = H, acyl, (un)substituted alkyl, etc.]. Determination of Pinl overexpression in a ety variety
of tumor types is also presented.

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587857-22-5 CAPLUS
1H-Pyrcolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-(2-methoxyphenyl)-4-oxo-(9CI) (CA INDEX NAME)

CN

587855-92-3P 587855-95-6P 587856-00-6P
587856-04-0P 587856-08-4P 587856-11-9P
587856-13-1P 587856-13-3P 587856-13-9P
587856-23-3P 587856-13-3P 587856-13-9P
587856-23-3P 587856-26-6P 587856-29-9P
587856-53-7P 587856-67-1P 587856-59-5P
587856-62-0P 587856-63-1P 587856-59-5P
587856-67-5P 587856-63-1P 587856-69-7P
587856-70-0P 587856-63-1P 587856-73-7P
587856-70-0P 587856-63-1P 587856-73-7P
587856-13-1P 587856-63-1P 587856-37-3P
587856-81-3P 587856-63-1P 587856-33-5P
587856-81-3P 587856-83-7P 587856-83-5P
587856-81-3P 587856-83-7P 587856-83-5P
587856-81-3P 587856-83-7P 587856-83-5P
587856-81-3P 587856-83-7P 587856-89-2P
587856-90-7P 587856-93-7P 587856-89-2P
587856-90-7P 587856-97-9P 587857-01-0P
587857-02-1P 587857-03-2P 587857-01-0P
587857-03-2P 587857-13-9P 587857-11-1P
587857-11-2P 587857-11-9P 587857-11-0P
587857-12-1P 587857-11-0P
587857-12-0P 587857-13-9P
587857-23-6P 587857-24-7P
587857-23-2P 587857-24-7P
587857-33-P
587857-34-P
587

(CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 587857-63-4P 587857-64-5P 587857-65-6P 587857-66-4P 587857-67-8P 587857-65-6P 587857-60-P 587857-70-3P 5878557-71-4P 587857-72-5P 587857-70-3P 5878557-71-4P 587857-72-5P 587857-73-69 5878557-71-4P 587857-73-6P 5878557-71-69 5878557-71-0P 587857-73-1P 587857-73-69 5878557-71-0P 587857-73-1P 587857-78-2P 5878557-71-0P 587857-73-1P 587857-82-2P 587857-83-4P 587857-83-4P 587857-83-4P 587857-83-1P 587857-83-2P 587857-83-4P 587857-83-4P 587857-93-4P 587857-93-5P 587858-03-4P 587858-03-4P 587858-03-5P 587858-03-5P 587858-03-6P 5878 (Uses)
(drug candidate; prepn. of pyrrolopyrimidine derivs. as GSK-3
inhibitors)
SBS-92-3 CAPLUS
SB-Pyrrolo[3],2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-4-oxo-6phenyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

i-Pro- (CH2) 3

587856-11-9 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(benzoyloxy)ethyl]-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

CH2-CH2-0-C

587856-13-1 CAPLUS
Carbamic acid, [2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

O || |CH₂-CH₂-NH-C-OBu-t

587856-15-3 CAPLUS Carbamic acid, (2-(7-cyano-1,4-dihydro-6-(1-methyl-1H-pyccol-2-yl)-4-oxo-5H-pyrcolo[3,2-d)pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

|| t-BuO-C-NH-CH₂-

RN 587856-18-6 CAPLUS

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587855-95-6 CAPLUS
IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

587856-00-6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-hydroxyethyl)-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

587856-04-0 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-hydroxypropyl)-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

587856-08-4 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(4-nitrophenyl)-4-oxo- (9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Carbamic acid, [2-[7-cyano-6-(2-fucanyl)-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

587856-23-3 CAPLUS
Carbamic acid, [2-{7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CINDEX NAME)

587856-26-6 CAPLUS
Carbamic acid, [2-[7-cyano-1,4-dihydro-6-[3-methyl-2-thienyl]-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester [9CI] (CA

587856-29-9 CAPLUS Carbamic acid, [2-[6-{3-chloro-2-thienyl}-7-cyano-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

#### 10524995.trn

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

|| CH2-CH2-NH-C-OBu-t

587856-35-7 CAPLUS
Carbamic acid, [3-{7-cyano-6-(2-furanyl)-1,4-dihydro-4-oxo-5H-pycrolo[3,2-d]pycimidin-5-yl}propyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

587856-47-1 CAPLUS Benzamide, N-[2-(6-chloro-7-cyano-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

S87856-50-6 CAPLUS
Benzamide, N-[2-(6-chloro-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrindin-5-y]ethyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

HC1

587856-63-1 CAPLUS IH-Pyrcoloi3.2-djpyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6-(3-methyl)-2-furanyl)-4-oxo-, monohydrochloride (9C1) (CA INDEX NAME)

• HCl

587856-65-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6-(3-methyl)-2-thienyl)-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

587856-67-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587856-54-0 CAPLUS

1H-Pyrrolo[3, 2-dipyrimidine-7-carbonitrile, 6-chloro-4,5-dihydro-5-[3-{1-methylethoxy}propyl]-4-oxo- (9C1) (CA INDEX NAME)

587856-57-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-chloro-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

587856-59-5 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-4-oxo-6-phenyl-, monbydrochloride (9CI) (CA INDEX NAME)

• HC1

587856-62-0 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-(2-furanyl)-4,5-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587856-69-6 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-{2-aminoethyl}-4,5-dihydro-6-methyl-4-oxo-, monhydrochloride (9C1) (CA INDEX NAME)

• HCl

587856-69-7 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-{2-aminoethyl}-6-{2,6-difluorophenyl}-4,5-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

587856-70-0 CAPLUS
1H-Pyrcolo(3.2-d)pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

• HCl

587856-71-1 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-aminopropyl)-6-(2-furanyl)-4,5-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

587956-73-3 CAPLUS Acetamide, N-(2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

587856-74-4 CAPLUS
Acetamide. N-[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d)pyriadin-5-yl]ethyl]-2,2,2-trifloro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587856-79-9 CAPLUS Acetamide, N-[2-[7-cyano-6-[2,6-difluorophenyl]-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

587856-80-2 CAPLUS Acetamide, N-[2-(7-cyano-1,4-dihydro-6-methyl-4-oxo-5H-pyrrolo[3,2-dipyrimidin-5-y)lethyl]-2.2.2-trifluoro- (9Cl) (CA INDEX NAME)

587856-81-3 CAPLUS
Acetamide, N-{2-(7-cyano-6-cyclopropyl-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,2,2-trifluoro- (9CI) (CA [NDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN

587856-76-6 CAPLUS Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-oxo-SH-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

587856-77-7 CAPLUS Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-oxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

587856-78-8 CAPLUS Acetamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS OR STN (Continued)

587856-82-4 CAPLUS Acetamide, N-[2-(6-benzo[b]thien-2-yl-7-cyano-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

587856-83-5 CAPLUS Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrcol-2-yl)-4-oxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587856-84-6 CAPLUS Acetamide, N-[2-(4-chloro-7-cyano-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

587856-85-7 CAPLUS
Acetamide, N-[2-[4-chloro-7-cyano-6-(2-furany1)-5H-pytrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587856-86-8 CAPLUS
CN Acetamide, N-[2-[4-chloro-7-cyano-6-(3-methyl-2-furanyl)-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587856-87-9 CAPLUS
CN Acetamide, N-[2-[4-chloro-7-cyano-6-(3-methyl-2-thienyl)-5H-pyrrolo[3,2-d)pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587856-88-0 CAPLUS
CN Acetamide, N-[2-[4-chloro-6-(3-chloro-2-thienyl)-7-cyano-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587856-92-6 CAPLUS
CN Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9C1) (CA INDEX NAME)

RN 587856-93-7 CAPLUS

Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587856-94-8 CAPLUS
Acetamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587856-89-1 CAPLUS
CN Acetamide, N-[2-[4-chloro-7-cyano-6-(1-methyl-lH-pyrrol-2-yl)-5H-pyrrol[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9Cf) (CA INDEX NAME)

RN 587856-90-4 CAPLUS
CN Acetamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo{3,2-d}pyrimidin-5-yl)ethyl}-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587856-91-5 CAPLUS
CN Acetamide, N-[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

RN 587856-95-9 CAPLUS
CN Acetamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxoSH-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587856-96-0 CAPLUS
CN H-Pyrcol(3,2-d)pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587856-97-1 CAPLUS
CN Hi-Pyrcoloi3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-(2-furanyl)-4,5-dhydro-4-thioxo-(9CI) (CA INDEX NAME)

RN 587856-98-2 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6(3-methyl-2-furanyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587856-99-3 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6(3-methyl-2-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-00-9 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-(3-chloro-2-thienyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-01-0 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-aminopropyl)-4,5-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587857-06-5 CAPLUS
CN IH-Pyrciol[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-benzo[b]thien-2-yl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-07-6 CAPLUS
CN Acetamide, N-[3-{7-cyano-6-(2-furanyl)-1,4-dihydro-4-oxo-5H-pyrrolo[3,2-d]pycimidin-5-yl]propyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 597857-08-7 CAPLUS
CN Acetamide, N-[3-[4-chloro-7-cyano-6-(2-furany1)-5H-pyrrolo[3,2-d]pyrimidin-5-yljpropy1]-2.2,2-trifluoro-(9CI) (CA INDEX NAME)

RN 587857-09-8 CAPLUS
CN Acetamide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587857-02-1 CAPLUS

CN 1H-Pyrcno[0].2-0-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-(2,6-difluorophenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

RN 587857-03-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6methyl-4-thioxo-(9C1) (CA INDEX NAME)

RN 587857-04-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-4,5-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-(9CI) (CA INDEX NAME)

RN 587857-05-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-aminoethyl)-6-cyclopropyl4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587857-10-1 CAPLUS
CN HH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-aminopropyl)-6-(2-fucanyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-11-2 CAPLUS
CN Benzamide, N-(2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrinidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587857-12-3 CAPLUS
CN Benzamide, N=[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo{3,2-d]pyrimidin-5-yl}ethyl]- (9CI) (CA INDEX NAME)

RN 597857-13-4 CAPLUS

Benzoic acid, 3-[[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

RN 597857-14-5 CAPLUS
CN Benzamide, 2-amino-N-[2-(7-cyano-1, 4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3, 2-d] pyrimidin-5-yl) ethyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 587857-15-6 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(1,4-dihydro-2,4-dioxo-3(2H)-quinazoliny1)ethyl]-4,5-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587857-16-7 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methyl-2-thienyl)-4-oxo-5-[2-(4-quinazolinylamino)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587857-23-6 CAPLUS CN 1H-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methoxyphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

S MeO

RN 587857-24-7 CAPLUS
CN IH-Pytrolo[3,2-d]pytimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxypheny)1-4-thioxo- (9CI) (CA INDEX NAME)

S H OH

RN 587857-25-8 CAPLUS
CN Benzoic acid, 3-(7-cyano-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-6-y1)- (9C1) (CA INDEX NAME)

S H CO2H

RN 587857-26-9 CAPLUS
CN Benzoic acid, 4-(7-cyano-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-6-y1)- (9C1) (CA INOEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH2 CH2

RN 587857-17-8 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-y1)ethyl]-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

CN Ph O ...

RN 587857-18-9 CAPLUS
CN Acetamide, N-[2-[7-cyano-6-phenyl-4-[[[2-(trimethyl*ilyl)ethoxy]methyl]thi
o]-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,2,2-trifluoro- (9CI) (CA
INDEX NAME)

CN Ph O | CH2-CH2-O-CH2-S

RN 587857-19-0 CAPLUS
CN HH-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-(methylamino)ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587857-27-0 CAPLUS
CN IH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-aminophenyl)-4,5-dihydro-4-thloxo- (9CI) (CA INDEX NAME)

S H₂N

RN 587857-28-1 CAPLUS
CN IH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 6-[3-(aminomethyl)phenyl]-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

S H CH2-NH2

RN 587857-29-2 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2-fluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C) (CA INDEX NAME)

RN 587857-30-5 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(4-ethoxyphenyl)-1,4-dihydro-4-thioxo-5H-pycrolo[3,2-d)pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Ph-C-NH-CH₂-CH₂

S

N

CN

OEt

RN 587857-31-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-bromophenyl)-4,5-dihydro4-oxo- (9C1) (CA INDEX NAME)

N H N CN

RN 587857-32-7 CAPLUS
CN 1H-Pyrcolo[3,2-d] pyrimidine-7-carbonitrile, 6-(2-bromophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

S Br CN

RN 587857-33-8 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5(phenylmethyl)- (9C1) (CA INDEX NAME)

CN Me

RN 587857-34-9 CAPLUS
CN 1H-Pyrrolo[3,2-d] pyrimidine-7-carbonitrile, 6-(3,5-dihydroxyphenyl)-4,5-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

1-PrO- (CH2) 3 OH

RN 587857-38-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-aminophenyl)-4,5-dihydro-5-(3-(1-methylethoxy)propyl)-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

i-Pro-(CH2)3 NH2

• HC

RN 587857-39-4 CAPLUS
CN Acetamide, N-[4-[7-cyano-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

1-Pro-(CH2)3 NH-C-CF3

RN 587857-40-7 CAPLUS
CN Acetamide, N-[4-[4-chloro-7-cyano-5-[3-(1-methylethoxy)propyl]-5H-pyrcolo[3,2-d]pyrimidin-6-yl]phenyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo- (9CI) (CA INDEX NAME)

i-PrO- (CH2) 3 OH

RN 587857-35-0 CAPLUS
CN Methanesulfonic acid, trifluoro-, 6-[3,5-bis(acetyloxy)phenyl]-7-cyano-5[3-(1-methylethoxy)propyl]-5H-pyrcolo[3,2-d]pyrimidin-4-yl ester (9CI)
(CA INDEX NAME)

F3C-S-O OAC

RN 587857-36-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[3,5-bis(acetyloxy)phenyl]-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

i-PrO-(CH2)3 OAC

RN 587857-37-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-dihydroxyphenyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl)-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

1-PrO-(CH2) 3 NH-C-CF

RN 587857-41-8 CAPLUS
CN Acetamide, N-[4-[7-cyano-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo-lh-pyrrolo[3,2-d]pyrimidin-6-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

1-PrO-(CH2) 3 0 | NH-C-CF3

RN 587857-42-9 CAPLUS
Ch 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-aminophenyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thiοxo-, monohydrochloride (9CI) (CA INDEX NAME)

i-Pro- (CH2) 3 S NH2

> ● HC1 587857-43-0 CAPLUS

RN 587857-43-0 CAPLUS

(N H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4.5-dihydro-5-[3-(1-methylethoxy)propyl]-6-[4-[(phenylmethyl)amino]phenyl]-4-thioxo-(9CI)

(CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

i-PrO- (CH2) 3 NH- CH2- Ph

587857-44-1 CAPLUS
Carbamic acid, [4-{7-cyano-4,5-dihydro-5-{3-(1-methylethoxy)propyl}-4-thioxo-1H-pyrrolo{3,2-d}pyrimidin-6-yl}phenyl}-, ethyl ester (9CI) (CA INDEX NAME)

i-Pro- (CH2) 3

587857-45-2 CAPLUS
3H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-hydroxpropyl)-4-oxo-6-phenyl-3-[[2-(trimethylsilyl)ethoxy]methyl]- (9CI)
(CA INDEX NAME)

Measi-CH2-CH2-0-CH2 (CH₂) 3 - OH

587857-46-3 CAPLUS
3H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5-(3-phenoxypropyl)-6-phenyl-3-{[2-(trimethylsilyl)ethoxy]methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587857-49-6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-phenoxypropyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

(CH2) 3-OPh

587857-50-9 CAPLUS
1H-Pyrrolo[3, 2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[2-[(phenylmethyl) amino]ethyl]-4-thioxo- (9CI) (CA INDEX NAME)

CH2-CH2-NH-CH2-Ph

587857-51-0 CAPLUS
IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[2-(3-phenyl-1,2,4-oxadiazol-5-yl]ethyl]-4-thioxo- (9CI) (CA INDEX NAME)

587857-52-1 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4-chloro-6-phenyl- (9CI) (CA INDEX NAME)

587857-53-2 CAPLUS 56:03:-35-2 CARLUS SH-PYTROIG 3,2-d]pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-4-oxo-6-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

Page 35

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Me3Si-CH2-CH2-0-CH2 (CH2) 3 - OPh

587857-47-4 CAPLUS
3H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[methylsulfonyl)swj]propyl]-4-oxo-6-phenyl-3-[[2-(trimethylsilyl)ethoxy]methyl]- (9CI) (CA INDEX NAME)

Me3Si -CH2-CH2-O-CH2

587857-48-5 CAPLUS
3H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-{3-{2-(2-methoylethoxy|propyl)-4-oxo-6-phenyl-3-{[2-(trimethylsilyl)ethoxy|methyl}-(9CI) (CA INDEX NAME)

PAGE 1-A MegSi-CH2-CH2 (CH2) 3-0-CH2-CH2-0-CH2-

PAGE 1-B

-- CH2-- OMe

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH2-CH2-C-OEt

587857-54-3 CAPLUS SH-Pyrcolol3,2-d)pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-oxo-, ethyl ester (9C1) (CA INDEX NAME)

587857-55-4 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

O || |CH₂- CH₂- C- OEt

587857-56-5 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

587857-57-6 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-6-phenyl-

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-58-7 CAPLUS CN 5H-Pyrclo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-1,4-dihydro-6-(3methyl-2-furanyl)-4-thioxo- (9C1) (CA INDEX NAME)

RN 587857-60-1 CAPLUS
CN 5H-Pycrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-6-cyclopropyl-1,4-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-61-2 CAPLUS
CN 5H-Pyrclo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(phenylmethyl)-4-thioxo- (9C1) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587857-62-3 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
S87857-66-7 CAPLUS
CN H-Pyrrolo[3, 2-d]pyrimidine-7-carbonitrile, 6-(hexahydro-1H-azepin-1-yl)4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

S H N

RN 587857-67-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(cyclopropylamino)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN S87857-68-9 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(cyclopropylamino)-1,4-dihydro-4-thioxo-5H-pycrolo(],2-djpyrimidin-5-yljethyl]- (9C1) (CA INDEX NAME)

RN 587857-69-0 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(dimethylamino)-1,4-dihydro-4-thioxo-5Hpycrolo[3,2-d)pycinidin-5-yl]ethyl]-4-fluoro[OCI ) (CA INDEX NAME)

RN 587857-70-3 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(1-pyrrolidinyl)-4-thioxo-5H-Page 36

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN 4-Piperidinecarboxylic acid, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl]- (9CI) (CA INDEX NAME)

RN 587857-63-4 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methoxy-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-64-5 CAPLUS CN HR-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-oxoheptyl)-6-phenyl-4-thioxo- (9C1) (CA INDEX NAME)

RN 587857-65-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-oxo-3-phenylpropyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

$$\bigcap_{c}^{CN} \bigcap_{N \longrightarrow CH_2 - CH_2 - NH - C}^{CN} \bigcap_{c}^{F}$$

RN 587857-71-4 CAPLUS
CN Benzamide, N-(2-[7-cyano-6-(cyclobutylamino)-1,4-dihydco-4-thioxo-5Hpycrolo(3,2-d)pycimidin-5-yl)ethyl]-4-fluoro- (9C1) (CA INDEX NAME)

$$\bigcap_{N \to -CH_2-CH_2-NH-C}^{CN} \bigcap_{N \to -CH_2-CH_2-NH-C}^{N} \bigcap_{N \to -CH_2-CH_2-NH-C}^{N}$$

RN 587857-72-5 CAPLUS
CN 1H-Pytrolo[3,2-d]pytimidine-7-carbonitrile, 6-(1-hexenyl)-4,5-dihydro-4oxo- (9C1) (CA INDEX NAME)

$$\bigcap_{N} \bigcap_{NH} CH = CH - Bu - t$$

RN 587857-73-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(2-phenylethenyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587857-74-7 CAPLUS IH-Pyrrolo[3,2-0]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-(9C1) (CA INDEX NAME)

587857-75-8 CAPLUS
1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-4-thioxo(9CI) (CA INDEX NAME)

S87857-76-9 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylphenyl)-4-oxo-(9CI) (CA INDEX NAME)

587857-77-0 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methylphenyl)-4-oxo- (9C1) (CA INDEX NAME)

587857-78-1 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methylphenyl)-

'L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-dimethylphenyl)-4,5-dihydro-4-oxo- [9CT) (CA INDEX NAME)

587857-83-8 CAPLUS
-H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[4-(1,1-dimethylethyl)phenyl]-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

587857-84-9 CAPLUS |H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-cyclohexylphenyl)-4,5-dihydro-4-oxo- (9C1) (CA INDEX NAME)

587857-85-0 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-fluorophenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

587857-86-1 CAPLUS 1H-Pycrolo[3,2-d]byrimidine-7-carbonitrile, 6-(3-fluorophenyl)-4,5-dihydro-4-oxo-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN 4-0x0- (9CI) (CA INDEX NAME)

587857-79-2 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,6-dimethylphenyl)-4,5-dihydro-4-oxo-(9CI) (CA INDEX NAME)

587857-80-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,3-dimethylphenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

587857-81-6 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,3-dimethylphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587857-82-7 CAPLUS

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587857-87-2 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-fluorophenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

597857-88-3 CAPLUS IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro-4-oxc- [9C1] (CA INDEX NAME)

587857-89-4 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587857-90-7 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-chlorophenyl)-4,5-dihydro-4-oxo- [9C1] (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587857-91-8 CAPLUS
CN HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-chlorophenyl)-4,5-dihydro4-oxo-(9CI) (CA INDEX NAME)

RN 587857-92-9 CAPLUS
CN IH-Fyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,3-dichlorophenyl)-4,5-dihydro4-oxo- [9CI] (CA INDEX NAME)

RN 587857-93-0 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,5-dichlorophenyl)-4,5-dihydro-4-owo-(9C1) (CA INDEX NAME)

RN 587857-94-1 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,4-dichlorophenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587857-99-6 CAPLUS
CN 1H-Pyrc10[3,2-d]pyrimidine-7-carbonitrile, 6-(2,6-dimethoxyphenyl)-4,5-dihydro-4-oxo-(9C1) (CA INDEX NAME)

(Continued)

RN 587858-00-2 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,5-dimethoxyphenyl)-4,5-dihydro4-axxc |9C1) (CA INDEX NAME)

RN 587858-01-3 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,4-dimethoxyphenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-02-4 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,4-dimethoxyphenyl)-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 6D CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 597857-95-2 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,4-dichlorophenyl)-4,5-dihydro4-oxo- (9C1) (CA INDEX NAME)

RN 587857-96-3 CAPLUS
-CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,4-dichloropheny1)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587857-97-4 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methoxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587857-98-5 CAPLUS CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-(4-methoxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 58758-03-5 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(3,4-dimethoxyphenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-04-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,4-dimethoxyphenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

RN 587858-05-7 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[2,3,4-trimethoxyphenyl)- [9CI) (CA INDEX NAME)

RN 587858-06-8 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-07-9 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-(3,4,5-trimethoxyphenyl) - (9C1) (CA INDEX NAME)

RN 597858-08-0 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 6-(2-formylphenyl)-4,5-dihydro4-oxo-(9C1) (CA INDEX NAME)

RN 587858-09-1 CAPLUS
CN HH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 6-(3-formylphenyl)-4,5-dihydro4-oxo- (9CI) (CA INDEX NAME)

RN 587858-10-4 CAPLUS
CN HH-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-formylphenyl)-4,5-dihydro4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-15-9 CAPLUS
CN IH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[4-(trifluoromethyl)phenyl]- (SCI) (CA INDEX NAME)

RN 587858-16-0 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-[3,5-bis(ctrifluoromethyl)phenyl]-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-17-1 CAPLUS
CN H-Pyrcrol[3,2-d]pyrimidine-7-carbonitrile, 6-(2-acetylphenyl)-4,5-dihydro4-oxo- (9CI) (CA INDEX NAME)

RN 587858-18-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-acetylphenyl)-4,5-dihydro4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-11-5 CAPLUS
CN Benzolc acid, 3-(7-cyano-4,5-dihydro-4-ожо-IH-pyrrolo[3,2-d]pyrimidin-6-yl)-(9C1) (CA INDEX NAME)

RN 587858-12-6 CAPLUS
CN Benzoic acid, 4-{7-cyano-4,5-dihydro-4-oxo-1H-pytrolo[3,2-d]pyrimidin-6-yl)-(9C1) (CA INDEX NAME)

RN 587858-13-7 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[2-(trifluoromethyl)phenyl]- (SCI) (CA INDEX NAME)

RN 587858-14-8 CAPLUS
CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-19-3 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-acetylphenyl)-4,5-dihydro4-oxo- (9CI) (CA INDEX NAME)

RN 587858-20-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 587858-21-7 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 587858-22-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-cyanophenyl)-4,5-dihydro4-oxo (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

NH CN

RN 587958-23-9 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-cyanophenyl)-4,5-dihydro4-oxo-(9C1) (CA INDEX NAME)

O H N CN

RN 587858-24-0 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(3-aminophenyl)-4,5-dihydro4-oxo- (9C1) (CA INDEX NAME)

NH2

RN 587858-25-1 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[4-(dimethylamino)phenyl]4,5-dihydro-4-oxo- (9C1) (CA INDEX NAME)

RN 587858-26-2 CAPLUS
CN IH-Pyrroloi(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-nitrophenyl)4-oxo-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Co

CH2-OH

RN 587858-31-9 CAPLUS
CN L-Phenylalanine, 4-(7-cyano-4,5-dihydro-4-oxo-lH-pyrrolo[3,2-d]pyrimidin-6yl)- (9C1) (CA INDEX NAME)

Absolute stereochemistry

S CO2H

RN 587858-32-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[4-(methylthio)phenyl]-4-oxo- (9CI) (CA INDEX NAME)

O H SMe

RN 587858-33-1 CAPLUS
CN IH-Pyrcoloj,2-djpyrimidine-7-carbonitrile, 6-[4-(ethylsulfonyl)phenyl]4,5-dihydro-4-oxor (9C1) (CA INDEX NAME)

0 = 5 = Et

RN 587858-34-2 CAPLUS
CN IH-Pytroio[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

N H NO2

RN 587858-27-3 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-nitrophenyl)4-thioxo- (9C1) (CA INDEX NAME)

NO 2

RN 587858-28-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)

OH CN

RN 587858-29-5 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[3-(hydroxymethyl)phenyl]-4-oxo- (SCI) (CA INDEX NAME)

о н N СН2- ОН

RN 587858-30-8 CAPLUS
CN IH-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-[4-(hydroxymethyl)phenyl]-4-oxo- (9CI) (CA INDEX NAME)

LIG ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

O H OPh

RN 587858-35-3 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-phenoxyphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

S H OPh

RN 587858-36-4 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(1,3-benzodioxol-5-yl)-4,5-dihydro4-oxo-(9C1) (CA INDEX NAME)

N H CN

RN 587858-37-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[1,1'-biphenyl]-4-yl-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

N H CN

RN S87858-38-6 CAPLUS
CN IH-Pyrroloi3,2-d]pyrimidine-7-carbonitrile, 6-(4-dibenzofuranyl)-4,5-dibydro-4-oxo- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

HN NH

RN 587858-39-7 CAPLUS
CN HH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-naphthalenyl)4-oxo-(9CI) (CA INDEX NAME)

N CN

RN 587859-40-0 CAPLUS
CN IH-Pyrroio(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(1-naphthalenýl)4-oxo-(9C1) (CA INDEX NAME)

RN 587858-41-1 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(9-phenanthrenyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-46-6 CAPLUS
CN H-Fyrrol[3,2-d]pyrimidine-7-carbonitrile, 6-(5-acetyl-2-thienyl)-4,5-dihydro-4-axo-(9Cl) (CA INDEX NAME)

N S AC

RM 587858-47-7 CAPLUS
'CN HH-Pyrcolof(3,2-d)pyrimidine-7-carbonitrile, 6-(2-benzofuranyl)-4,5-dihydro4-oxo-(9C1) (CA INDEX NAME)

N H CN

RN 587858-48-8 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-benzo[b]thien-2-y1-4,5-dihydro-4-oxo- (9C1) (CA INDEX NAME)

N CN

RN 587858-49-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-benzo[b]thien-3-yl-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

CN HN N

RN 587859-42-2 CAPLUS CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(2-thienyl)- (9C1) (CA INDEX NAME)

H S

RN 587858-43-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

S H S

RN 587858-44-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(3-thi-eyu)- (9CI) (CA INDEX NAME)

N H CN

RN 587858-45-5 CAPLUS CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-(5-methyl-2-thienyl)-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

N H CN

RN 587858-50-2 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-4-oxo-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

CH₂- Ph

RN 587858-51-3 CAPLUS
CN 1H-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

CN CH2-Ph

RN 587858-52-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-dimethyl-4-oxo(9CI) (CA INDEX NAME)

H CN Me

RN 587858-53-5 CAPLUS
CN IH-Pyrcoloi3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4,oxo-6-phenyl-5-propyl-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Ph Pr-

RN 587858-54-6 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-propyl (9CI) (CA INDEX NAME)

CN Me

RN 587858-55-7 CAPLUS
CN H-Pyrcoloj,2-djpyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-propyl4-thioxo- (9CI) (CA INDEX NAME)

H Me

RN 587858-56-8 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methylpropyl)4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

CN Ph

RN 587858-57-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(2-methylpropyl)-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) methylbutyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-62-6 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(3-methylbutyl)-4-thioxo-(9CI) (CA INDEX NAME)

CN Me

CH2- CH2- CHMe2

RN 587858-63-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methylbutyl)4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

Ph N Me CH2-CH-Et

RN 587858-64-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methylbutyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

Ph Me CH2-CH-E

RN 597858-65-9 CAPLUS CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(2-methylbutyl)-4-oxo-(9C1) (CA INDEX NAME) L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Me N Bu-i

RN 587858-58-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(2-methylpropyl)-4-thioxo-(9CI) (CA INDEX NAME)

H Me Me

RN 587858-59-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methylbutyl)4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

Ph CH2-CH2-CHMe2

RN 597858-60-4 CAPLUS
CN IH-Pyrcoloi3,2-d|pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methylbutyl)-6-phenyl-4-thioxo-(9C1) (CA INDEX NAME)

Ph CH2- CH2- CHMe2

RN 587858-61-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(3-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Me CH2-CH-1

RN 587858-66-0 CAPLUS
CN HH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 5-(2,2-dimethylpropyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

CN Ph .

RN 587858-67-1 CAPLUS
CN H-Pyrcold[3,2-d]pyrimidine-7-carbonitrile, 5-(2,2-dimethylpropyl)-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

Ph CH2-CMe

RN 587858-68-2 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylpropyl)-4-oxo-5-pentyl- (9CI) (CA INDEX NAME)

CN Bu-i (CH₂) 4-Me

RN 587858-69-3 CAPLUS
CN IH-Pyrrolo(3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5-pentyl-6-(phenylmethyl)- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-70-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5-pentyl-6-phenyl- (9CI) (CA INDEX NAME)

RN 587858-71-7 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-pentyl-6-phenyl4-thioxo- (9C1) (CA INDEX NAME)

RN 587858-72-8 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-pentyl- (9CI) (CA INDEX NAME)

RN 587858-73-9 CAPLUS

1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-pentyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-79-5 CAPLUS
CN HF-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-aminopropyl)-4,5-dihydro4-oxo-6-phanyl-, monohydrochloride (9C1) (CA INDEX NAME)

#### • HCl

RN 587858-80-8 CAPLUS
CN IH-Pyccold[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methoxyethyl)4-oxo-6-phenyl- (9C1) (CA INDEX NAME)

RN 587858-81-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methoxyethyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587858-82-0 CAPLUS

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-74-0 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 5-(3,3-dimethylbutyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN \$97858-75-1 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3,3-dimethylbutyl)-4,5dihydro-6-phenyl-4-thioxo-(9C1) (CA INDEX NAME)

RN 587858-76-2 CAPLUS
CN 1H-Pyrcoloi3,2-d|pyrimidine-7-carbonitrile, 5-cyclopropyl-4,5-dihydro-4oxo-6-phenyl- [9C1] (CA INDEX NAME)

RN 587858-77-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-cyclopropyl-4,5-dihydro-6-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methoxyethyl)-6-methyl-4-oxo- (9C1) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587858-83-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587858-84-2 CAPLUS
CN IH-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

NN 587858-85-3 CAPLUS
N 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro-6-methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-86-4 CAPLUS
CN HH-Pyrcno[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-6-(2-methylpropyl)-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

IT 587858-87-5P 587858-88-6P 587858-89-7P 587858-90-0P 587858-91-1P 587858-92-2P 587858-93-3P 587859-02-P 587859-03-P 587859-13-P 587859-13-P 587859-13-P 587859-13-P 587859-13-P 587859-14-P 587859-13-P 587859-14-P 587859-13-P 587859-14-P 587859-13-P 587859-23-P 587859-33-P 587859-33-P

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587858-89-7 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypcopyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587858-90-0 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-6-methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 587858-91-1 CAPLUS
CN 1H-Pyrcno[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-6-methyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587858-92-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-(2-methylpropyl)-4-oxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
587860-26-2P 587860-27-3P 587860-28-4P
587860-29-5P 587860-30-3P 587860-31-9P
587860-32-0P 587860-33-1P 587860-34-2P
587860-35-3P 587860-33-3P 587860-34-2P
587860-18-6P 587860-36-9P 587860-34-2P
587860-18-6P 587860-32-9P 587860-40-0P
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587860-44-4P 587860-46-5P 587860-40-0P
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587860-93-2P 587860-30-0P 587860-91-1P
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587861-01-6P 587861-03-0P 587861-03-0P
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587861-03-0P 587861-03-0P 587861-03-0P
587861-03-0P

CN CH2-Ph

RN 587858-88-6 CAPLUS
CN H-Fyrcno[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-93-3 CAPLUS
CN HH-Pycrol[3,2-d]pycimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro4-oxo-6-(phenylmethyl)- (9Cl) (CA INDEX NAME)

RN 587858-94-4 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587858-95-5 CAPLUS
CN 1H-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587858-96-6 CAPLUS
CN IH-Pyrcoloi(3,2-d]pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587858-97-7 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-methyl-4-oxo-(9C1) (CA INDEX NAME)

RN 597858-98-8 CAPLUS
CN IH-Pyrcoloi(3,2-d)pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-methyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587858-99-9 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(2-methylpropyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587859-00-5 CAPLUS

(N HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylpthoxy)popyl)-6-(2-methylpropyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) methylethoxy)propyl]-6-(phenylmethyl)-4-thioxo- (9C1) (CA INDEX NAME)

RN 587859-05-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo-6-(2-phenylethyl)- (9CI) (CA INDEX NAME)

RN 587859-06-1 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(2-phenylethyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 597859-07-2 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)popyl]-4-oxo-6-phenyl- (9C1) (CA INDEX NAME)

RN 587859-08-3 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-(1-methylchoxy)pcpy)1-6-pheny1-4-thioxo- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-01-6 CAPLUS
CN HH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-5-[3-(1-methylethoxylypropyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587859-02-7 CAPLUS
CN HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-5-{3-(1-methylethoxylypropyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-03-8 CAPLUS
CN HR-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethowy)propyl]-4-oxo-6-(phenylmethyl)-(9CI) (CA INDEX NAME)

RN 587859-04-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-09-4 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-[3-(1-methyl-bchwy)popyl]-4-owo- (9Cl) (CA INDEX NAME)

RN 587859-10-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-{3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-11-8 CAPLUS
CN HF-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-{3-(methylthio)propyl]-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587859-12-9 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(metrylthio)propi]-6-phenyl-4-thioxo- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Cont

Ph (CH₂) 3- SMe

RN 587859-13-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-[3-(methylthio)propyl]-4-oxo- (9CI) (CA INDEX NAME)

H N Me (CH₂) 3 – SMe

RN 587859-14-1 CAPLUS CN 5H-Pytrolo[3,2-d]pytimidine-5-propanenitrile, 7-cyano-1,4-dihydro-4-oxo-6phenyl- (SCI) (CA INDEX NAME)

Ph CH₂- CH₂- CN

RN 587859-15-2 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanenitrile, 7-cyano-1,4-dihydro-6-phenyl4-th/owo- (9C1) (CA INDEX NAME)

Ph CH2- CH2- CN

RN 587859-16-3 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(cyclopropylmethyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dihydro-6-methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 587859-21-0 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(cyclohexylmethyl)-4,5dihydro-6-methyl-4-thioxo- (9C1) (CA INDEX NAME)

RN 587859-22-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(1-cyclohexen-1-ylmethyl)4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587859-23-2 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(1-cyclohexen-1-ylmethyl)4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 597859-24-3 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(1-cyclohexen-1-ylmethyl)-4,5-dihydro-6-methyl-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-17-4 CAPLUS
CN H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 5-(cyclopropylmethyl)-4,5dihydro-6-phenyl-4-thioxo- (9Cl) (CA INDEX NAME)

RN 587859-18-5 CAPLUS
CN 1H-Pyrcolo[3, 2-d]pyrimidine-7-carbonitrile, 5-(cyclohexylmethyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587859-19-6 CAPLUS
CN HH-Pyrrolo[3],2-d]pyrimidine-7-carbonitrile, 5-(cyclohexylmethyl)-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-20-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-?-carbonitrile, 5-(cyclohexylmethyl)-4,5-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN .587859-25-4 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(1-cyclohexen-1-ylmethyl)4,5-dihydco-6-methyl-4-thioxo- (9CI) (CA IMDEX NAME)

RN 587859-26-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5[(tetrahydro-2-furanyl)methyl]- (9CI) (CA INDEX NAME)

RN 587859-27-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5[(tetrahydro-2-furanyl)methyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-28-7 CAPLUS
CN H-Fyrcold,3.2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-[(tetrahydro-2-furanyl)methyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (

H Me Me

RN 587859-29-8 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 5-[2-(1,3-dioxolan-2-y1)ethyl]-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

CN Ph

RN 587859-32-3 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylpropyl)-.
4-oxo-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

CN Bu-i

RN 587859-33-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-4-oxo-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

N N N CN.

RN 587859-35-6 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-5-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued (phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

CN Ph

RN 587859-40-3 CAPLUS
CN lH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

H Me

RN 587859-41-4 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5-(2-phenylethyl)- (9CI) (CA INDEX NAME)

CN Ph CH2- CH2- Ph

RN 587859-42-5 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-(2-phenylethyl)-4-chioxo-(9CI) (CA INDEX NAME)

Ph Ph CH2- CH2- Ph

RN 587859-43-6 CAPLUS
CN 1H-Pycrolo(3,2-d)pycimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-(2-phenylethyl)- (9CI) (CA INDEX NAME)

U16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S CH2-Ph

RN 587859-36-7 CAPLUS CN HH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5,6bis(phenylmethyl)- (9CI) (CA INDEX NAME)

CN CH2-Ph

RN 587859-37-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(2-phenylethyl)-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

CH₂-CH₂-Ph

RN 587859-38-9 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5-(phenylmethyl)- (9C1) (CA INDEX NAME)

CN Ph

RN 587859-39-0 CAPLUS CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

H Me Me CH₂- CH₂- Ph

RN 587859-44-7 CAPLUS
CN HH-Pytrol(3,2-d)pytimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(2-phenylethyl)-4-thioxo- (9CI) (CA INDEX NAME)

CN Me CH₂- CH₂- Ph

RN 587859-45-8 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylpropyl)4-oxo-5-(3-phenylpropyl)- (9C1) (CA INDEX NAME)

CN Bu-i

N 587859-46-9 CAPLUS
N IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylpropyl)-5-(3-phenylpropyl)-4-thioxo-(9C1) (CA INDEX NAME)

CN Bu-i (CH₂) 3-Ph

AN 587859-47-0 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-5-(3-phenylpropyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN (Continu

S (CH2) 3- Ph

RN 587859-48-1 CAPLUS
CN H-Pyccol[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(phenylmethyl)-5-(3-phenylpcopyl)- (9CI) (CA INDEX NAME)

CN CH2-Ph

RN 587859-49-2 CAPLUS
CN HH-Pycrol[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-phenylethyl)-5-(3-phenylpropyl)-4-thioxo- (9C1) (CA INDEX NAME)

CH₂- CH₂- Ph

RN 587859-50-5 CAPLUS
CN 1H-Pyrrolo(3, 2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5-(3-phenylpropyl)- (9CI) (CA INDEX NAME)

CN Ph (CH2) 3- Ph

RN 587859-51-6 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-(3-phenylpropyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) phenylethyl)-5-(3-phenylpropyl)- (9CI) (CA INDEX NAME)

CH₂- CH₂- Ph

RN 587859-56-1 CAPLUS
CN 1H-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5-(4-phenylbutyl)- (9CI) (CA INDEX NAME)

Ph (CH₂)₄-Ph

RN 587859-57-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2,2-diphenylethyl)-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

CN Ph

RN 587859-58-3 CAPLUS
CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 5-(2,2-diphenylethyl)-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

Ph CH2-CHPh2

RN 587859-59-4 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-bromo-5-[(4-chlorophenyl)methyl]-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Ph

RN 587859-52-7 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-(3-phenylpropyl)- [9CI] (CA INDEX NAME)

Me Me (CH₂) 3- Ph

RN S87859-S3-8 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-(3-phenylpropyl)-4-thioxo- (9C1) (CA INDEX NAME)

Me Me (CH₂) 3 – Ph

RN 587859-54-9 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-4-oxo-5-(3-phenylpropyl)- (9CI) (CA INDEX NAME)

(CH₂) 3-Ph

RN 587859-55-0 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-(2-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Br CH2 C1

RN 587859-60-7 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 5-{(4-fluorophenyl)methyl}-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

Ph Ph

RN 587859-61-8 CAPLUS
CN IH-Pyrrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-5-[(4-methoxyphenyl]methyl]-4-oxo-6-phenyl- (9Cl) (CA INDEX NAME)

Ph CMe

RN 587859-62-9 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(4-fluorophenyl)ethyl]4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 597859-63-0 CAPLUS
CN lH-Pyrcoloi3,2-d]pyrimidine-7-carbonitrile, 5-[2-(4-chloropheny1)ethyl]4,5-dihydro-4-owo-6-pheny1- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

Ph Ph C1

RN 587859-64-1 CAPLUS
CN HH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile; 4,5-dihydro-5-[2-(4-methoxyphenyl)=thyl]-4-oxo-6-phenyl- (9C1) (CA INDEX NAME)

RN 587859-65-2 CAPLUS .
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylpropyl)-4-oxo-5-(2-phenoxyethyl)-(9Cl) (CA INDEX NAME)

RN 587859-66-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5-(2-phenoxyethyl)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 587859-67-4 CAPLUS
CN lH-Pyrcolo[3,2-d]pyrmidine-7-carbonitrile, 4,5-dihydro-4-oxo-5-(2-phenoxyethyl)-6-phenyl- (9CI) .(CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dihydro-6-methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 597859-72-1 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-furanylmethyl)-4,5-dihydro-6-methyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587859-73-2 CAPLUS CN IH-Fyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5-(2-thienylmethyl)- (9CI) (CA INDEX NAME)

RN 587859-74-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-(2-thienylmethyl)- (9CI) (CA INDEX NAME)

RN 587859-75-4 CAPLUS
CN IH-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[(5-methyl-2-furanyl)methyl]-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-68-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-phenoxyethyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-69-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-furanylmethyl)-4,5dihydro4-oxo-6-phenyl- [9CI] (CA INDEX NAME)

RN 587859-70-9 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrilė, 5-(2-furanylmethyl)-4,5dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\bigcap_{N \longrightarrow N-CH_2}^{Ph} \bigcap_{N \longrightarrow CH_2}^{Ph}$$

RN 587859-71-0 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-furanylmethyl)-4,5-

1.16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-76-5 CAPLUS
CN 1H-Pyrcno[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-[(5-methyl-2-furanyl)methyl]-4-oxo- [9CI) (CA INDEX NAME)

RN 587859-77-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5[2-(2-thienyl)+6thyl]- (9CI) (CA INDEX NAME)

RN 587859-78-7 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[2-(2-thienyl)ethyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-79-8 CAPLUS
CN H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5[2-(2-thienyl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-80-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5(2-propynyl)- [9CI] (CA INDEX NAME)

RN 587859-81-2 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methylphenyl)4-thioxo-(9CI) (CA INDEX NAME)

RN 587859-82-3 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methylphenyl)4-thloxo- (9C1) (CA INDEX NAME)

RN 587859-83-4 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-chlorophenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-88-9 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-89-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-6-(2-fluorophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

# EtO-CH2-CH2 S F N N N

RN 587859-90-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro-6-(3-methyl-2-furanyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-91-4 CAPLUS CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro-6-(3-methyl-2-thioxp-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN \$87859-84-5 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-chlorophenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

(Continued)

RN 587859-85-6 CAPLUS
CN IH-Pytrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,3-dichlorophenyl)-4,5-dihydro-4-thioxo- (9C1) (CA INDEX NAME)

RN 587859-86-7 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,5-dichlorophenyl)-4,5-dibydro-4-thioxoc (9CI) (CA INDEX NAME)

RN 587859-87-8 CAPLUS
CN HH-Pytrol(3,2-d)pytimidine-7-carbonitrile, 5-(3-aminopropyl)-4,5-dihydro-6-(2-methylphenyl)-4-oxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587859-92-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-{2-{3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-93-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-[3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl]ethyl]-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-94-7 CAPLUS
CN IN-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(2,5-dioxo-1-pyrcolidiny)]ethy]-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587859-95-8 CAPLUS CN HI-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro-5-(3-methoxypropyl)-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

MeO- (CH₂) 3

587859-96-9 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-5-(3-ethoxypropyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

Eto- (CH2) 3 Cl

567859-98-1 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propy1]-6-(2-methylpheny1)-4-thioxo- (9CI) (CA INDEX NAME)

i-Pro- (CH2)3

S87859-99-2 CAPLUS IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-fluorophenyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl)-4-thioxo- (9CI) (CA INDEX NAME)

i-PrO- (CH2) 3

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(CH2) 3-OPr-i

587860-04-6 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(3-methyl-2-furanyl)-4-thioxo- (9CI) (CA INDEX NAME)

(CH2) 3-OPr-i

587860-05-7 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(3-methyl-2-thienyl)-4-thioxo- (9CI) (CA NAME)

(CH2) 3-OPr-i

587860-06-8 CAPLUS 1H-Eyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-Euranyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thloxo- (9CI) (CA INDEX NAME)

(CH2) 3-OPr-i

587860-07-9 CAPLUS
IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,6-difluorophenyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587860-00-2 CAPLUS
1H-Pyrrolo[3,2-0]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxyphenyl)-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

i-Pro- (CH2) 3

587860-01-3 CAPLUS 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(2-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

(CH₂)₃-OPr-i

597660-02-4 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(3-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

(CH2) 3-OPr-1

587860-03-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-furanyl)-4,5-dihydro-5-[3-1-1-theory)propyll-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

i-Pro- (CH2) 3

587860-08-0 CAPLUS Acetamide, 2-(acetyloxy)-N-[4-[7-cyano-4,5-dihydro-5-[3-[1-methylethoxy)propyl]-4-thioxo-lH-pyrrolo[3,2-d]pyrimidin-6-yl]phenyl]-(9CI) (CA INDEX NAME)

0 || -C-CH₂-OAc i-PrO- (CH2) 3

587860-09-1 CAPLUS
Propanoic acid, 3-[[4-(7-cyano-4,5-dihydro-5-[3-(1-methylethoxy)propy1]-4-thioxo-IH-pytrolo[3,2-d]pyrimidin-6-yl]phenyl]amino]-3-oxo-, methyl ester (SCI) (CA INDEX NAME)

i-PrO- (CH2) 3

587860-10-4 CAPLUS
Acetamide, N-[4-[7-cyano-4,5-dihydro-5-[3-(1-methylethoxy)pcopy1]-4-thioxoHH-pyrcolo[3,2-d]pyrimidin-6-y1]pheny1]-2-(2-methoxyethoxy)- (9CI) (CA
INDEX NAME)

i-Pro- (CH2)3 NH-C-CH2-O-CH2-CH2-OMe

587860-11-5 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Acetamide, N-[4-[7-cyano-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxoH-pyrrolo[3,2-d]pyrimidin-6-yl]phenyl]-2-(dimethylamino)- (9CI) (CA
INDEX NAME)

RN 587860-12-6 CAPLUS
CN Benzoic acid, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propoxyl- (9C1) (CA INDEX NAME)

RN 587860-13-7 CAPLUS
CN Benzoic acid, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrindin-5-yl)propoxy]-, methyl ester (9C1) (CA INDEX MAME)

RN 597860-14-3 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[3-(2-phenylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) phenyl-1.2,4-oxadiazol-5-yl)propyl]-4-thioxo- (9C1) (CA INDEX NAME)

RN 587860-19-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[3-[4-fluorophenyl)-1,2,4-oxadiazol-5-yl]propyl]-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-20-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[3-[3-[(propylsulfonyl)methyl]-1,2,4-oxadiazol-5-yl]propyl]-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

RN 587860-21-7 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(2-methylphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-22-8 CAPLUS
CN HH-Pyrcolof3,2-d|pyrimidine-7-carbonitrile, 6-(2-fluorophenyl)-4,5-dihydro5-methyl-4-thioxo-(9CI) (CA INDEX NAME)

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RN 587860-15-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[2-(4-morpholinyl)ethoxy]propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-16-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[2-(2-methoxyethoxy)erhoxy]propyl}-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-17-1 CAPLUS
CN IH-Pyrcolof 3, 2-d|pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[3-{4-methylphenyl)-1,2,4-oxadiazol-5-yl}propyl]-6-phenyl-4-thloxo- {9Cl} (CA INDEX NAME)

RN 587860-18-2 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[3-(3-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-23-9 CAPLUS
CN IH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro5-methyl-4-thioxor (9C1) (CA INDEX NAME)

RN 587860-24-0 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4.5-dihydco-5-methyl-6-(2-thienyl)-4-thioxoc (9CI) (CA INDEX NAME)

RN \$87860-25-1 CAPLUS CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(3thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-26-2 CAPLUS
CN HH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(3-furanyl)-4,5-dihydro-5methyl-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S Me

RN 587860-27-3 CAPLUS CN 1H-Pytrolo[3,2-d]pytimidine-7-carbonitrile,.6-cyclohexyl-4,5-dihydro-5methyl-4-thioxoc (9CI) (CA INDEX NAME)

RN 587860-28-4 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(3-methyl-2-furanyl)-4-thioxo- (9CI) (CA INDEX NAME)

5 Me Me N N O CN

RN 587860-29-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(3-methyl-2-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-30-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro-5-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN '587860-35-3 CAPLUS
CN | H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-(1,1-dimethylethyl)phenyl]-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

S H Bu-

RN. 597860-36-4 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-cyclohexylphenyl)-4,5dihydro-4-thioxo-(9CI) (CA INDEX NAME)

N H CN

RN 587860-37-5 CAPLUS
CN H-Pyrcol(3,2-d)pyrimidine-7-carbonitrile, 6-(2-fluorophenyl)-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

S F

RN 587860-38-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-fluorophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Ph-CH₂ Cl

RN 587860-31-9 CAPLUS

CN 1H-Pyrcolo[3, 2-d]pyrimidine-?-carbonitrile, 6-(2-chlorophenyl)-4,5-dihydro5-(2-phenylethyl)-4-thioxo- (9CI) (CA INDEX NAME)

Ph-CH2-CH2
S C1
N CN

RN 587860-32-0 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methylphenyl)4-thioxo-(9CI) (CA INDEX NAME)

S H Me

RN 587860-33-1 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(2,6-dimethylphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

S H Me

RN 587860-34-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-dimethylphenyl)-4,5-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

S H CN F

RN 587860-39-7 CAPLUS
CN HH-Pyrcoloj3,2-djpyrimidine-7-carbonitrile, 6-(4-fluorophenyl)-4,5-dihydro4-thioxo- (9c1) (CA INDEX NAME)

S H CN F

RN 587860-40-0 CAPLUS
CN IH-Pyrroloi3,2-d]pyrimidine-7-carbonitrile, 6-(3,4-dichlorophenyl)-4,5-dihydro4-thioxo-(9CI) (CA INDEX NAME)

S H C1

RN 587860-41-1 CAPLUS
CN 1H-Pycrol[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methoxyphenyl)-4-thioxo-(9CI) (CA INDEX NAME)

S H OMe

RN 587860-42-2 CAPLUS
CN 1H-Pyrroloi3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methoxyphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S H OMe

RN 587860-43-3 CAPLUS
CN HR-Pyrrolo[3,2-d]pyrimidine-7-oarbonitrile, 6-(2,6-dimethoxyphenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

MeO H N OM

RN 587860-44-4 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,5-dimethoxyphenyl)-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

S MeO OMe

RN 587860-45-5 CAPLUS CN HH-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-(2,3,4-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

S MeO OMe

RN S87860-46-6 CAPLUS
CN IH-Pytrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-formylphenyl)-4,5-dihydro4-thioxo- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-51-3 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-acetylphenyl)-4,5-dihydro4-thiowo- (9C1) (CA INDEX NAME)

S H Ac

RN 597860-52-4 CAPLUS
CN | H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-[3-(trifluoromethoxy)phenyl]- (9C1) | (CA INDEX NAME)

O-CF3

RN 587860-53-5 CAPLUS
CN H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-[4-(trifluoromethoxy)phenyl]- (9Cl) (CA INDEX NAME)

5 H 0- CF3

RN 587860-54-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-cyanophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Con-

RN 587860-47-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-[3-(tcifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 587860-48-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-thioxo-6-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 587860-49-9 CAPLUS
CN HH-Pyrcoloj3,2-djpyrimidine-7-carbonitrile, 6-(3,5-bis(crifluoromethyl)phenyl]-4,5-dihydro-4-thioxoo- (9CI) (CA INDEX NAME)

RN 587860-50-2 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-acetylphenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-55-7 CAPLUS
CN IH-Pyrcolo(3,2-d]pyrimidine-7-carbonitrile, 6-[4-(dimethylamino)phenyl]4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

RN 587860-56-8 CAPLUS
CN HH-Pytrol[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[3-[hydroxymethyl)phenyl]-4-thloxo-[9CI] (CA INDEX NAME)

RN 587860-57-9 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[4-(hydroxymethyl)phenyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-58-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[4(methylthio)phenyl]-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587860-59-1 CAPLUS.
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-[4-(ethylsulfonyl)phenyl]-4,5-dihydro-4-thioxo- (9C1) (CA INDEX NAME)

587860-60-4 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(1,3-benzodioxol-5-yl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-61-5 CAPLUS IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-dibenzofurany1)-4.5-dihydro-4-thioxo- (9CI) (CA [NDEX NAME]

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

597860-65-9 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-thienyl)-4-thioxo-(9C1) (CA INDEX NAME)

(Continued)

587860-66-0 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(5-methyl-2-thienyl)-4-thioxo- (9CI) (CA INDEX NAME)

587860-67-1 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-benzofuranyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

587860-68-2 CAPLUS Benzoic acid, 3-(7-cyano-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl)-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS . COPYRIGHT 2007 ACS on STN

587860-62-6 CAPLUS HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-naphthalenyl)-4-thioxo- (9CI) (CA INDEX NAME)

587960-63-7 CAPLUS 1H-Pyrcol(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(1-naphthalenyl)-4-thioxo-(9CI) (CA INDEX NAME)

587860-64-8 CAPLUS
1H-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(9-phenanthrenyl)-4-thioxo- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

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587860-69-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3-fluoro-4-methylphenyl)4,5-dibydro-4-thioxo- (9Cf) (CA INDEX NAME)

587960-70-6 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,4-difluorophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-71-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-difluorophenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-72-8 CAPLUS IN-Pyrcolo[3,2-d)pyrimidine-7-carbonitrile, 6-(2,4-difluorophenyl)-4,5-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

Se7860-73-9 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,3-difluorophenyl)-4,5-dihydro-4-thioxo- (9C1) (CA INDEX NAME)

587860-74-0 CAPLUS Benzamide, 3-(7-cyano-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)

587860-75-1 CAPLUS
1H-Pyrrolo[3,2-q|pyrimidine-7-carbonitrile, 6-[3-(dimethylamino)phenyl]-4,5-dihydro-4-thiowo- (9CI) (CA INDEX NAME)

587860-76-2 CAPLUS

1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-ethoxyphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587860-81-9 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[3-(methylthio)phenyl]-4-thioxo- (9CI) (CA INDEX NAME)

587860-82-0 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-fluoro-3-methoxyphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-83-1 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(5-chloro-2-methylphenyl)4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-84-2 CAPLUS'
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(5-chloro-2-methoxyphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587860-77-3 CAPLUS
1H-Pycrolo(3,2-d)pycimidine-7-carbonitrile, 4,5-dihydro-6-{2-(methoxymethyl)phenyl}-4-thioxo- (9CI) (CA INDEX NAME)

587860-78-4 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[3(methoxymethyl)phenyl]-4-thioxo- (9CI) (CA INDEX NAME)

587860-79-5 CAPLUS
1H-Pyrcnlo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[4-(methoxymethyl)phenyl]-4-thioxo- (9CI) (CA [NDEX NAME])

587860-80-8 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(2-methoxy-5-methylphenyl)-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587860-85-3 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(4-fluoro-2-methylphenyl)4,5-dihydro-4-thioxo- (9C1) (CA INDEX NAME)

587860-86-4 CAPLUS
1H-Pyrrolo[3,2-q]pyrimidine-7-carbonitrile, 6-(3-fluoro-2-methylphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-87-5 CAPLUS
IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(5-fluoro-2-methylphenyl)-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

587860-88-6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methoxy-2-methylphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-89-7 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-dichlorophenyl)-4,5-dibydro-4-thioxoc (9CI) (CA INDEX NAME)

RN 587860-90-0 CAPLUS CN 1H-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 6-(2-ethylphenyl)-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

RN 597860-91-1 CAPLUS
CN IH-Pyrroloi3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methyl-2-thienyl)-4-thioxo-(9CI) (CA INDEX NAME)

RN 587860-92-2 CAPLUS CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-pyridinyl)-4thioxo-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-97-7 CAPLUS CN HI-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(2-methylphenyl)-4-owo- (9CI) (CA INDEX NAME)

RN 587860-98-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclohexyl-4,5-dihydro-5-methyl-4-oxo- (9CI) (CA INDEX NAME)

RN 587860-99-9 CAPLUS
CN HA-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-6-phenyl-5[3-(phenylmethoxy)propyl]- (SC1) (CA INDEX NAME)

RN 587861-00-5 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-6-(4-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587860-93-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(5-methoxy-2-methylphenyl)-4-thioxo- [9CI] (CA INDEX NAME)

RN 587860-94-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(4-morpholinyl)propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-95-5 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-cyclopropyl-4,5-dihydro-5-(2-propayl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587860-96-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,6-difluorophenyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo- (9CI) (CA INDEX NAME)

1.16 ANSVER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-01-6 CAPLUS
CN HH-Pytrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-methyl-6-(4-methylphenyl)-4-oxo- (9Cl) (CA INDEX NAME)

RN 587861-02-7 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylphehoxy)propyl]-6-(4-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587861-03-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(2-ethoxyethyl)-4,5-dihydro-6-(4-methylphenyl)-4-oxo-(9CI) (CA INDEX NAME)

RN 587861-04-9 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methylphenyl)4-oxo-5-(2-phenylethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

Ph-CH2-CH2

RN 587861-05-0 CAPLUS
CN HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(4-methylphenyl)4-oxo-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 587861-06-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-bromo-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo- (9CI) (CA INDEX NAME)

RN 587861-07-2 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-[3,5-bis(phenylmethoxy)phenyl}-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-oxo-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\bigcap_{N \to \infty} \bigcap_{N \to \infty} \bigcap_{N$$

RN 587861-12-9 CAPLUS
CN Benzamide, 4-chloro-N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl}- (9CI) (CA INDEX NAME)

RN 587861-13-0 CAPLUS
CN Benzamide, 4-cyano-N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl}- (9CI) (CA INDEX NAME)

RN 587861-14-1 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pytrolo[3,2-d]pytrimidin-5-yi)ethyl]-3-nitro-(SCI) (CA INDEX NAME)

RN 587861-15-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-nitro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

RN 587861-08-3 CAPLUS
CN HH-Fyrc10[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-methoxypropyl)-6-(2-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)

RN 587861-09-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-phenyl-5-[3-(phenylmethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587861-10-7 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 5-(3-ethoxypropyl)-4,5-dihydro-6-(2-methylphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587861-11-8 CAPLUS
CN Benzamide, 3-chloro-N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-16-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyccolo[3,2-d]pyrimidin-5-yl)ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 597861-17-4 CAPLUS
CN Benzoic acid, 4-[[[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

$$\bigcap_{N=1}^{H}\bigcap_{N=1}^{CN}\bigcap_{N=1}^{Ph}\bigcap_{CH_2-CH_2-NH-C}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe}\bigcap_{N=1}^{N}\bigcap_{C-CMe$$

RN 587861-18-5 CAPLUS
CN 2-Furancarboxamide, N-[2-(7-gyano-1,4-dihydro-4-oxo-6-phenyl-5H-pycrole(3,2-d)pycimidin-5-yl)ethyll- (9C1) (CA INDEX NAME)

AN 587861-19-6 CAPLUS
CN 2-Thiophenearboxamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587861-20-9 CAPLUS 3-Pyridinecarboxamide, N-(2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587861-21-0 CAPLUS 4-Pyridinecarboxanide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

597861-22-1 CAPLUS 2-Furancarboxamide, N-(2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pycrolo[3,2-d|pyrimidin-5-yl)ethyl]-5-nitro- (9CI) (CA INDEX NAME)

587861-23-2 CAPUS 4-Isovazolecarboxamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-3,5-dimethyl- (9CI) (CA INDEX NAME)

AMSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
537862-09-7P 587862-10-0P 587862-11-1P
537862-12-2P 587862-10-9P 587862-14-4P
537862-15-5P 587862-16-6P 587862-17-7P
537862-18-8P 587862-19-9P 587862-20-2P
537862-18-8P 587862-22-4P 587862-23-5P
537862-21-3P 587862-22-7P 587862-23-5P
537862-24-6P 587862-31-5P 587862-23-1P
537862-30-4P 587862-31-5P 587862-32-1P
537862-30-4P 587862-31-7P 587862-32-9P
537862-30-9P 587862-31-7P 587862-32-9P
537862-49-4P 587862-40-6P 587862-41-7P
537862-49-8P 587862-40-9P 587862-41-7P
537862-49-1P 587862-43-9P 587862-41-7P
537862-19-9P 587862-43-9P 587862-41-7P
537862-45-1P 587862-46-2P 587862-50-9P
537862-51-9P 587862-52-0P 587862-51-1P
537862-51-9P 587862-52-0P 587862-53-1P
537862-60-9P 587862-51-1P 587862-50-9P
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537862-60-9P 587862-61-1P 587862-50-9P
537862-60-9P 587862-61-1P 587862-60-9P
537862-60-9P 587862-61-1P 587862-60-9P
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537862-75-7P 587862-70-2P 587862-77-9P
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537862-75-7P 587862-70-2P 587862-77-9P
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537862-90-9P 587862-91-7P 587862-90-4P
537862-00-9P 587862-91-7P 587862-90-4P
537862-00-9P 587862-91-7P 587862-91-P
537862-00-9P 587862-91-7P
537862-90-9P 587862-91-7P
537863-00-9P 587863-01-1P 587862-90-4P
537863-00-9P 587863-01-1P 587862-90-4P
537863-00-9P 587863-01-1P 587862-90-4P
537863-00-9P 587863-01-1P 587862-90-4P
537863-00-9P 587863-01-1P 587863-01-1P
537863-00-9P 587863-01-1P
537863-00-9P 587863-01-1P
537863-00-9P 587863-01-1P
537863-00-9P
537863-00-9

(Uses) (drug candidate: prepn. of pyrrolopyrimidine derivs. as GSK-3

Inhibitors of python of py

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587861-24-3 CAPLUS 2-Thiophenecatowamide, 5-[(4-chlorophenyl)sulfonyl]-N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methyl-(9CI) (CA INDEX NAME)

Me

587861-25-4P 587861-26-5P 587861-27-6P
587861-31-2P 587861-29-8P 587861-30-1P
587861-31-2P 587861-23-3P 587861-30-1P
587861-31-3P 587861-32-3P 587861-33-6P
587861-31-3P 587861-33-6P 587861-33-6P
587861-31-3P 587861-33-6P 587861-33-6P
587861-43-6P 587861-41-4P 587861-32-5P
587861-43-6P 587861-44-7P 587861-42-5P
587861-43-6P 587861-44-7P 587861-42-5P
587861-49-2P 587861-50-5P 587861-48-1P
587861-49-2P 587861-50-5P 587861-51-6P
587861-50-0P 587861-56-1P 587861-51-6P
587861-61-8P 587861-65-1P 587861-51-69
587861-61-8P 587861-62-9P 587861-63-6P
587861-61-8P 587861-68-5P 587861-63-6P
587861-73-2P 587861-71-0P 587861-72-1P
587861-73-2P 587861-71-0P 587861-72-1P
587861-73-2P 587861-71-6P 587861-73-P
587861-79-8P 587861-73-6P 587861-73-7P
587861-82-3P 587861-83-4P 587861-83-5P
587861-83-6P 587861-83-4P 587861-83-5P
587861-83-9P 587861-83-4P 587861-93-3P
587861-83-6P 587861-83-4P 587861-93-3P
587861-83-6P 587861-83-4P 587861-93-3P
587861-94-7P 587861-95-5P 587861-93-6P
587862-03-1P 587862-03-2P 587862-03-4P
587862-03-1P 587862-03-2P 587862-03-6P

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S87861-26-5 CAPLUS Cyclopentanecarboxamide, N-[3-(7-cyano-1.4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl]- (9CI)' (CA INDEX NAME)

587861-27-6 CAPLUS Benzamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]- (9CI) (CA INDEX NAME)

587861-28-7 CAPLUS
Benzamide, 2-chloro-N-{3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl]propyl]- (9CI) (CA INDEX NAME)

587861-29-8 CAPLUS
Benzamide, 3-chloro-N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pycrolo[3,2-d]pyrimidin-5-yl)propyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-30-1 CAPLUS

Senzamide, 4-chloro-N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrolo[3,2-d)pyrimidin-5-yl)propyl]- (9CI) (CA 1NDEX NAME)

RN 587861-31-2 CAPLUS
CN Benzamide, 4-cyano-N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-dihydro-d-oxo-6-phenyl-5-phenyl-5-phenyl-5-phenyl-5-phenyl-5-phenyl-5-phenyl-5-pheny

RN 587861-32-3 CAPLUS
Senzamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-2-nitro- (9Cl). (CA INDEX NAME)

RN 587861-33-4 CAPLUS
CN Benzamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-dipyriaidin-5-yl)propyl]-3-nitro- (9Cl) | (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN S87861-37-8 CAPLUS
CN 4-Pyridinecarboxamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl)propyl]- (9Cl) (CA INDEX NAME)

RN 587861-39-0 CAPLUS
CN Benzeneacetamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 587861-40-3 CAPLUS

'CN 2-Thiopheneacetamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pycrolo[3,2-d]pyrimidin-5-yl)propyl]- (9CI) (CA INDEX NAME)

RN 587861-41-4 CAPLUS Enzenepropanamide, 4-chloro-N-[3-{7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-Page 60

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-34-5 CAPLUS CN Benzamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-y1)propyl]-4-nitro- (9CI) (CA INDEX NAME)

RN 587861-35-6 CAPLUS
CN Benzoic acid, 4-[[[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 587861-36-7 CAPLUS
CN 3-Pyridinecarboxamide, N-[3-[7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrclo[3,2-d]pyrindin-5-yl)propyl]- [9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrcolo[3,2-d]pyrimidin-5-yl)propyl]-α,α-dimethyl- (9CI) (CA INDEX NAME)

RN 587861-42-5 CAPLUS
CN Carbanic acid, [3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 587861-43-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-(acetyloxy)ethyl]-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587861-44-7 CAPLUS
CN Benzoic acid, 3-chloro-, 2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl ester (9CI) (CA INDEX NAME)

RN 587861-45-8 CAPLUS
CN 1.4-Benzenedicarboxylic acid, 2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl methyl ester (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

RN 587861-46-9 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-{3-(acetyloxy)propyl]-4,5-dihydro4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587861-47-0 CAPLUS
CN Cyclopentanecarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pycrole[3,2-d]pycimidin-5-yl)pcopyl ester (9CI) (CA INDEX NAME)

RN 587861-48-1 CAPLUS
CN IH-Fycrolo[3,2-d]pyrimidine-7-carbonitrile, 5-{3-(benzoyloxy)propyl}-4,5-dihydro4-oxo6-phenyl- (9CI) (CA INDEX NAME)

RN 587861-49-2 CAPLUS
CN Benzoic acid, 2-chloro-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN | 1H-Pyrrolo[3.2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[(3-nitrobenzoyl)oxy]propyl]-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

RN 587861-54-9 CAPLUS
CN IH-Fyrcio[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[(4-nitrobenzoyl)coxy]propyl]-4-oxo-6-phenyl- (9C1) (CA INDEX NAME)

RN 587861-55-0 CAPLUS
CN Benzoic acid, 4-methoxy-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-56-1 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pytrolo[3,2-d]pytimidin-5-yl)propyl methyl ester (9CI) (CA INDEX NAME)

RN 597961-57-2 CAPLUS CN 2-Furancarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5Hpyrrolo(3,2-d|pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrrolo[3,2-d]pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-50-5 CAPLUS
CN Benzoic acid, 3-chloro-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-51-6 CAPLUS
CN Benzoic acid, 4-chloro-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcol(3,2-d)pyrimidin-5-yl)propyl ester (9C1) (CA INDEX NAME)

RN 587961-52-7 CAPLUS
CN Benzoic acid, 4-cyano-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5Hpycrolo(3,2-d)pycimidin-5-yl)propyl ester (9CI) (CA'INDEX NAME)

RN 587861-53-8 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-58-3 CAPLUS
CN 2-Thiophenecarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo(3,2-d)pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-59-4 CAPLUS
CN 3-Pyridinecarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrol(3,2-d)pyrimidin-5-yl)propyl ester (9Cl) (CA INDEX NAME)

RN 587861-60-7 CAPLUS
CN 4-Pyridinecarboxylic acid, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrcolo[3,2-d]pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-61-8 CAPLUS
CN 2-Furancarboxylic acid, 5-nitro-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrclo[3,2-d]pyrimidin-5-yl)propyl ester (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587861-62-9 CAPLUS
CN 4-Isoxazolecarboxylic acid, 3,5-dimethyl-, 3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl ester (9CI) (CA INDEX NAME)

RN 587861-63-0 CAPLUS CN Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587861-64-1 CAPLUS
CN Benzenepropanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytimidin-5-y1)ethyl]- (9CI) (CA INDEX NAME)

RN 587861-65-2 CAPLUS CN Benzamide, N-[2-{7-cyano-1,4-dihydro-6-{3-methyl-2-furanyl}-4-thioxo-5H-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587861-69-6 CAPLUS
CN Benzamide, 2-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587861-70-9 CAPLUS
CN Benzamide, 3-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

$$\bigcap_{N \longrightarrow N-CH_2-CH_2-NH-C}^{CN} \bigcap_{C1}^{Ph}$$

RN 587861-71-0 CAPLUS
CN Benzmide, 4-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 597861-72-1 CAPLUS
CN Benzamido, »[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y]tethyl]-3-fluoro-(9C1) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587861-66-3 CAPLUS
CN Benzamide, N-[2-{7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pycrol6[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

RN 587861-67-4 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (PCI) (CA INDEX NAME)

RN 587861-68-5 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxoSH-pyrrol[0,3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\bigcap_{n=1}^{H}\bigcap_{n=1}^{CN}\bigcap_{n=1}^{Ph}\bigcap_{n=1}^{N}\bigcap_{n=1}$$

RN 587861-73-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methyl- (9C1) (CA INDEX NAME)

RN 587861-74-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methoxy- (9CI) (CA INDEX NAME)

RN 587861-75-4 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587861-76-5 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5Hpyrcolo[3,2-d]pyrimidin-5-yllethyl]-4-methoxy- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continu

RN 587861-77-6 CAPLUS
CN Benzamide, N-[2-{7-cyano-1,4-dihydro-6-{3-methyl-2-thienyl}-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587861-78-7 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587861-79-8 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pycrol-2-yl)-4-thioxo5H-pycrolo[3,2-d]pycimidin-5-yl]ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

(Continued)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587861-83-4 CAPLUS
CN Benzamide, 2-amino-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl}- (9CI) (CA INDEX NAME)

RN 587861-84-5 CAPLUS
CN Benzamide, 2-amino-N-{2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587861-85-6 CAPLUS
CN Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

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RN 587861-80-1 CAPLUS
CN 1H-Pyrrole-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl) ethyl]-1-[(4-methylphenyl)sulfonyl]- (9CI)
(CA INDEX NAME)

$$\bigcap_{N \to \infty}^{CN} \bigcap_{N \to \infty}^{Ph} \bigcap_{CH_2 - CH_2 - NH - C}^{N \to \infty} \bigcap_{N \to \infty}^{N \to \infty}^{N \to \infty} \bigcap_{N \to \infty}^{N \to \infty} \bigcap_{N \to \infty}^{N \to \infty} \bigcap_{N \to \infty}^{N \to \infty}$$

RN 587861-81-2 CAPLUS
CN Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl)- (9CI) (CA INDEX NAME)

RN 587861-82-3 CAPLUS CN Benzamide, 2-amino-N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pycrol[3,2-d]pycimidin-5-yl]ethyl]- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-86-7 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-1, 4-dihydro-6-[3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimadin-5-yl]ethyl]-3-methyl- [9CI) (CA INDEX

RN 587861-87-8 CAPLUS
CN Benzamide, 2-amino-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-3-methyl- (9CI) (CA INDEX NAME)

RN 587861-88-9 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-], 4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo[3, 2-d]pyrimidin-5-yl]ethyl]-3-methyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS. on STN (Continued)

RN 587861-89-0 CAPLUS
CN Benzamide, 2-amino-N-(2-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 587861-90-3 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 587861-91-4 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-1,4-dihydro-6-[3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587861-95-8 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1)ethyl]-2-hydroxy-5-methyl- (9CI) (CA INDEX NAME)

(Continued)

RN 587861-96-9 CAPLUS
CN Benzamide, 3-cyano-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587861-97-0 CAPLUS
CN Benzamide, 4-cyano-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587861-98-1 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-hydroxy- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587861-92-5 CAPLUS
Senzamide, 2-amino-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

RN 587861-93-6 CAPLUS

Enzamide, 2-amino-N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrcol-2-yl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

RN 587861-94-7 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-hydroxy-3-methyl- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587861-99-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5Hpyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

RN 587662-00-8 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9Cl) (CA INDEX NAME)

RN 587862-01-9 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-02-0 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-lH-pyrcol-2-yl)-4-thioxoSH-pyrcol(3,2-d-]pyrimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

$$\bigcap_{N \to \infty} \bigcap_{CH_2 - CH_2 - NH - C} \bigcap_{CH_2 - N$$

RN 587862-03-1 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrole[3,2-d]pyrimidin-5-yl)tehyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN \$87862-04-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thloxo-5H-pycrolo[3,2-dipyrimidin-5-yl)ethyl]-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT, 2007 ACS on STN

(Continued)

RN 587862-09-7 CAPLUS
CN 1,3-Benzodioxole-5-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587862-10-0 CAPLUS
CN 1,3-Benzodioxole-5-carboxamide, N-[2-[6-(3-chloro-2-thieny1)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1]ethyl]- (9CI) (CA INDEX NAME)

RN 587862-11-1 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-nitro- (9CI) (CA INDEX NAME)

RN 587862-12-2 CAPLUS
CN Benzoic acid, 4-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587862-05-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

RN 587862-06-4 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-nitro- (9CI) (CA INDEX NAME)

RN 587862-07-5 CAPLUS
CM Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-3,5-dimethoxy- (9CI) (CA INDEX NAME)

RN 587862-08-6 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-nitro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Cont

RN 587862-13-3 CAPLUS
CN Benzoic acid, 4-[[[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxoSH-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

RN 587862-14-4 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo(3,2-d)pyrimidin-5-yl)ethyl)-3-hydroxy- (9CI) (CA INDEX NAME)

RN \$87862-15-5 CAPLUS
CN Benzamide, 4-(aminosulfonyl)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo5H-pycrolo[3,2-d]pycimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

$$\bigcap_{\substack{\text{I} \\ \text{N} \\ \text{N}}} \bigcap_{\text{N} \leftarrow \text{CH}_2 - \text{CH}_2 - \text{NH}^- \text{C}} \bigcap_{\substack{\text{I} \\ \text{N} \\ \text{O}}} \bigcap_{\text{N} \leftarrow \text{NH}_2} \bigcap_{\text{N} \leftarrow \text{NH}_2} \bigcap_{\text{N} \leftarrow \text{NH}_2} \bigcap_{\text{N} \leftarrow \text{N}} \bigcap_{\text{N}} \bigcap_{\text{N} \leftarrow \text{N}} \bigcap_{\text{N} \leftarrow \text{N}} \bigcap_{\text{N} \leftarrow \text{N}} \bigcap_{\text{N} \leftarrow \text{N}} \bigcap_{\text{N}}$$

RN 587862-16-6 CAPLUS

L16 ANSWER 6 OF 60. CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-hydroxy- (9CI) (CA INDEX NAME)

RN 587862-17-7 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-hydroxy- (9CI) (CA INDEX NAME)

RN 597862-18-8 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-cyclopentyl- (9CI) (CA INDEX NAME)

RN 587862-19-9 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-ylj-ethyl]-4-methyl- (9C1) (CA INDEX NAME)

(Continued)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587862-24-6 CAPLUS
CN Benzamide, 4-bromo-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole(3,2-d)pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587862-25-7 CAPLUS
CN Benzoic acid, 4-[[[2-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 587862-26-8 CAPLUS

CN Benzoic acid, 4-[[[2-{7-cyano-1,4-dihydro-6-{3-methyl-2-thienyl}-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

'116 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587862-20-2 CAPLUS
CN 2-Thiophenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyramidin-5-yl)ethyl]-5-methyl- [9CI] (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587862-21-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,4-difluoro-(9CI) (CA INDEX NAME)

$$\bigcap_{N \to \infty} \bigcap_{N \to \infty} \bigcap_{CH_2 \to CH_2 \to NH-C} \bigcap_{F} \bigcap_{F} \bigcap_{N \to \infty} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to NH-C} \bigcap_{F} \bigcap_{F} \bigcap_{N \to \infty} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to NH-C} \bigcap_{F} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to CH_2 \to CH_2} \bigcap_{F} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to CH_2 \to CH_2 \to CH_2} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to CH_2 \to CH_2 \to CH_2} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to CH_2} \bigcap_{CH_2 \to CH_2 \to CH_2} \bigcap_{F} \bigcap_{CH_2 \to CH_2 \to CH_2} \bigcap_{CH_2 \to CH_2} \bigcap_{CH_2 \to CH_2} \bigcap_{CH_2 \to CH_2 \to CH_2} \bigcap_{CH_2 \to CH_2} \bigcap_{C$$

RN 587862-22-4 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d|pyrimidin-5-yl)ethyl]-3-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

$$\bigcap_{N \to \infty} \bigcap_{N \to \infty} \bigcap_{CH_2 - CH_2 - NH + C} \bigcap_{CH_2 \to CH_3 - NH + C} \bigcap_{CH_3 \to CH_3 \to CH_3} \bigcap_{CH_3 \to CH_3 \to CH$$

RN 587862-23-5 CAPLUS
CN Benzamide, 2-bromo-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-27-9 CAPLUS
Benzoic acid, 4-[{[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 587862-28-0 CAPLUS

Benzoic acid, 4-[[[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587862-29-1 CAPLUS
CN Benzamide, 3,5-dichloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrlmidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Conti

RN 587862-30-4 CAPLUS
CN 3-Furancarboxmaide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcol(3,2-d]pyrimidin-5-yl)ethyl)-2-methyl- (9CI) (CA INDEX NAME)

RN 587862-31-5 CAPLUS
CN Benzamide. N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3,5-dinitro- (9CI) (CA INDEX NAME)

RN 587862-32-6 CAPLUS
CN Benzamide, 3,4-dichloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d)pyrimidin-5-yl)ethyl}- (9CI) (CA INDEX NAME)

RN 587862-33-7 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3,4-dimethoxy- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-37-1 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]echyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 587862-38-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,4-dimethoxy- (9CI) (CA INDEX NAME)

RN 587862-39-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-5-methyl-2-nitro- (9CI) (CA INDEX NAME)

RN 587862-40-6 CAPLUS
CN Carbamic acid, [2-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]amino|carbonyl]phenyl]-,
l,l-dimethylethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Contin

RN 587862-34-8 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl]ethyl]-3,4-dimethoxy- (9CI) (CA INDEX NAME)

$$\bigcap_{S} \bigcap_{CH_2 - CH_2 - NH} \bigcap_{OMe} \bigcap$$

RN 587862-35-9 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yllethyl]-2,6-dimethoxy- (9CI) (CA INDEX NAME)

RN 587862-36-0 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-fluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-41-7 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-djpyrimidin-5-yl)ethyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

RM 587862-42-8 CAPLUS
CN Benzamide, 4-(acetylamino)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrinidin-5-y1)ethyl]- (9C1) (CA INDEX NAME)

RN 587862-43-9 CAPLUS
CN Benzamide, 4-(acetylamino)-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587862-44-0 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN. (Continued) d]pyrimidin-5-yl)ethyl]-2,4-dihydroxy- (9CI) (CA INDEX NAME)

RN 587862-45-1 CAPLUS
CN Benzamide, N-[2-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,6-dihydroxy- (9CI) (CA INDEX NAME)

RN 587862-46-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-(methylamino)- (9C1) (CA INDEX NAME)

RN 587862-47-3 CAPLUS.
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl) ethyl]-2-(dimethylamino)- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-52-0 CAPLUS
CN Benzamide, 5-acetyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl)-2-hydroxy- (9CI) (CA INDEX NAME)

RN 587862-53-1 CAPLUS
CN Benzamide, 5-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-nitro-(9CI) (CA INDEX NAME)

RN 587862-54-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl+4-thioxo-5H-pycrolo[3,2-d]pycrimidin-5-yl,ethyl]-4-(methylthio)- (9C1) (CA INDEX NAME)

RN 587862-55-3 CAPLUS
CN Benzamide, 3-(acetylamino)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytimidin-5-yl)ethyl}- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 587862-48-4 CAPLUS
CN Benzamide, 2-(acetylamino)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587862-49-5 CAPLUS
CN Benzamide, 5-(acetylamino)-2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587862-50-8 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl-tehyl]-4-(methylamino)- (9CI) (CA INDEX NAME)

RN 587862-51-9 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ehyl)-2-methyl-6-nitro-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-56-4 CAPLUS
CN Benzamide, 3-bromo-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyroloi(3,2-d)pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

RN 587862-57-5 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytlmidin-5-yl]behyl]-2,5-difluoro-(9CI) (CA INDEX NAME)

RN 587862-58-6 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,4,5-trifluoro- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \overset{\text{CN}}{\underset{N}{\overset{\text{CN}}{\longrightarrow}}} & \overset{\text{Ph}}{\underset{N}{\overset{\text{CN}}{\longrightarrow}}} & \overset{\text{CN}}{\underset{F}{\overset{\text{CN}}{\longrightarrow}}} & \overset{\text{Ph}}{\underset{F}{\overset{\text{CN}}{\longrightarrow}}} & \overset{\text{CN}}{\underset{F}{\overset{\text{CN}}{\longrightarrow}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}}} & \overset{\text{CN}}{\overset{\text{CN}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{CN}}}} & \overset{\text{CN}}{\overset{\text{CN}}{\overset{\text{C$$

RN 587862-59-7 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-djpyriadin-5-y1)thyl]-2,5-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-60-0 CAPLUS

Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 587862-61-1 CAPLUS
CN Benzamide, N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d|pyrimidin-5-y1)ethyl]-2-fluoro-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 587862-62-2 CAPLUS

Benzamide, N-[2-(7-cyano-1, 4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3, 2-d]pytimidin-5-yl)ethyl]-2-fluoro-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\bigcap_{N \longrightarrow CH_2-CH_2-NH-C} \bigcap_{P \cap CH_2-CH_2-NH-C} \bigcap_{P \cap CF_3} \bigcap_{CF_3} \bigcap_{CF$$

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-67-7 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-2,3,5,6-tetrafluoro-4-hydroxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \overset{\text{CN}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{CN}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{Ph}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{O}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{F}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{F}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{CN}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{N}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{CN}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{CN}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{N}}{\underset{\text{N}}} & \overset{\text{N}}{\underset{\text{N}}{\longrightarrow}} & \overset{\text{N}}{\underset{\text{N}}} & \overset{\text{$$

RN 587862-68-8 CAPLUS

CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-[4,5-dihydro-3-methyl-5-oxo-lH-pyrazol-1-yl)-(9Cl) (CA INDEX NAME)

RN 587862-69-9 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]tehyl]-4-(lH-imidazol-1-yl)- [9CI] (CA INDEX NAME)

RN S87862-70-2 CAPLUS
CN Carbamic acid. [4-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]mmino]carbonyl]phenyl]-,

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587862-63-3 CAPLUS

Benzamide, N-[2-(7-cyano-1,4-dihydco-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-4-fluoro-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 587862-64-4 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-ethoxy- (9Cl) (CA INDEX NAME)

RN 587862-65-5 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}ethyl]-4-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)

$$\bigcap_{S}^{H}\bigcap_{N-CH_2-CH_2-NH-C}^{OMe} \bigcap_{M\in S}^{OMe}$$

RN 587862-66-6 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycrindin-5-yl)enhyl]-2-fluoro-6-hydroxy- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 587862-71-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-y1)ethyl]-4-(hydroxymethyl)- (9C1) (CA INDEX NAME)

RN 587862-72-4 CAPLUS

Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-3-methoxy- (9CI) (CA INDEX NAME)

RN 587862-73-5 CAPLUS
CN Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-3-(trifluoromethyl)- [9CI] (CA INDEX NAME)

$$\bigcap_{h \to \infty} \bigcap_{h \to \infty} \bigcap_{h$$

RN 587862-74-6 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Benzamide, 2-amino-3-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thloxo-5H-pycrolo[3,2-d]pycimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587862-75-7 CAPLUS

Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl]ethyl]-3-hydroxy- (9CI) (CA INDEX NAME)

587862-76-8 CAPLUS
Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo(3,2-d)pyrimidin-5-yl)ethyl)-5-methoxy- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587862-77-9 CAPLUS Bénzamide. 2-anino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo(3,2-d]pyrimidin-5-yl)ethyl]-5-fluoro-(9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 587862-81-5 CAPLUS Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-5-hydroxy- (9CI) (CA INDEX NAME)

587862-82-6 CAPLUS
Benzamide, 2-amino-6-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

S87862-83-7 CAPLUS Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-dipyrimidin-5-yl]ethyl]-6-fluoro (9CI) (CA INDEX NAME)

587862-84-8 CAPLUS
Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]-6-methoxy- (9CI) (CA INDEX NAME)

587862-85-9 CAPLUS Benzamide, 4-benzoyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT- 2007 ACS on STN

587862-78-0 CAPLUS
Benzamide, 2-amino-5-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3],2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587862-79-1 CAPLUS
Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyccolo[3,2-d]pyrimidin-5-yl)ethyl]-5-nitro- (9CI) (CA INDEX NAME)

587862-80-4 CAPLUS Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d|pyrimidin-5-y1)ethyl]-6-methyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587862-86-0 CAPLUS
Benzamide, 3-benzoyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587862-87-1 CAPLUS
Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-4-(2-cyclohexen-1-yloxy)- (9CI) (CA INDEX NAME)

587862-88-2 CAPLUS Pentanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyccolo[3,2-d]pycimidin-5-yl]ethyl]-2-oxo- (9Cl) (CA INDEX NAME)

587862-89-3 CAPLUS
Acetic acid, [[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyccolo[3,2-d]pycimidin-5-yl)ethyl]amino]oxo-, methyl ester (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587862-90-6 CAPLUS
Cyclopropanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenylpyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

587862-91-7 CAPLUS
2-Furancarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587862-92-8 CAPLUS 2-Fucancarboxamide, N-(2-[7-cyano-1.4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587862-96-2 CAPLUS
Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-a-oxo- (9CI) (CA INDEX NAME)

587862-97-3 CAPLUS
Benzenepropanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-a-oxo- (9CI) (CA INDEX NAME)

587862-98-4 CAPLUS 3-Thiophenecarboxamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d|pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

587862-99-5 CAPLUS
Pyrazinecarboxamide, 3-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587863-00-1 CAPLUS 2-Thiophenecarboxamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-Page 71

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 587862-93-9 CAPLUS
CN 2-Furancarboxamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C) (CA INDEX NAME)

587862-94-0 CAPLUS
2-Furancarboxamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo(3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587862-95-1 CAPLUS HH-Indole-3-acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo∍5H-pyrcolo[3,2-d|pyrimidin-5-yl)ethyl]-α-οxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587863-01-2 CAPLUS
2-Thiophenecarboxamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrrol03,2-d]pyrimidin-5-yl]ethyl]- (SCI) (CA INDEX NAME)

587863-02-3 CAPLUS
2-Thiophenecarboxamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

587063-03-4 CAPLUS
2-Thiophenecarboxamide, N-[2-[6-(3-chloro-2-thieny1)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-04-5 CAPLUS
CN 2-Thiophenecarboxamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587963-05-6 CAPLUS
CN 3-Pyridazinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-1,4,5,6-tetrahydro-6-oxo- {9CI} (CA INDEX NAME)

RN 587863-06-7 CAPLUS
CN 2H-Pyran-5-carboxamide, N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-oxo-(9CI) (CA INDEX NAME)

RN 587863-07-8 CAPLUS
CN 4H-Pyrchn-2-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-4-oxo-(9C1) (CA INDEX NAME)

(Continued)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 597863-11-4 CAPLUS
CN 3-Pyridinecarboxamide, 2-chloro-N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyriol)3,2-d]pyrimidin-5-yllethyll- (9CI) (CA INDEX NAME)

RN 587863-12-5 CAPLUS
CN 3-Furancarboxámide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,5-dimethyl- (9CI) (CA INDEX NAME)

RN 587863-13-6 CAPLUS
CN 3-Pyridinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-(methylthio)- (9C1) (CA INDEX NAME)

RN 587863-14-7 CAPLUS
CN 3-Thiophenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-5-nitro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-08-9 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[2-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}ethyl}-1-ethyl-3-methyl- (9CI) (CA INDEX NAME)

RN 587863-09-0 CAPLUS
CN 1H-Pycazole-5-carboxamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-1-ethyl-3-methyl-(9Cl) (CA INDEX NAME)

RN 587863-10-3 CAPLUS
CN 2-Thiophenecarboxamide, N-{2-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl}-5-nitro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-15-8 CAPLUS
CN 1.2,3-Thiadiazole-4-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolig3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

RN 587863-16-9 CAPLUS
CN IH-Pyrrole-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcol(3,2-d)pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587863-17-0 CAPLUS CN 1-Naphthalenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yllethyl]- (9CI) (CA INDEX NAME)

RN 587863-18-1 CAPLUS
CN lH-Pyrrole-2-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-1-methyl- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Con-

RN 587863-19-2 CAPLUS CN 2-Thiophenecarboxamide, 5-acetyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587863-20-5 CAPLUS
CN 2-Thiophenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl)ethyl]-3-ethoxy- (9Cl) (CA INDEX NAME)

RN 587863-21-6 CAPLUS
CN 3-1soxazolecarboxamide, N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo(3,2-d)pyrimidin-5-yl)ethyl)-4-methyl- (9CI) (CA INDEX NAME)

RN 587863-22-7 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-26-1 CAPLUS
CN 2-Thiophenecarboxamide, 5-chloro-N-[2-(7-cyano-1, 4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

RN 587863-27-2 CAPLUS
CN 1H-Pycazole-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxó-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl}-5-nitro- (9CI) (CA INDEX NAME)

RN 587863-28-3 CAPLUS
CN 1H-Pyrrole-2-carboxamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl}- (9CI) (CA INDEX NAME)

RN 587863-29-4 CAPLUS
CN 1H-Pyrrole-2-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 4-Isoxazolecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

RN 587863-23-8 CAPLUS
CN 4-Isoxazolecarboxamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]-3-methyl- (9CI) (CA INDEX NAME)

RN 587863-24-9 CAPLUS
CN 2-Thiophenearboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyll-3-methyl- (9C1) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587863-25-0 CAPLUS
CN 2-Thiophenearboxamide, 3-chloro-N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcold),2-d|pyrimidin-5-yl) thyl]- (9C1) (CA 1NDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-30-7 CAPLUS
CN 1H-Pyrrole-2-carboxamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587863-31-8 CAPLUS
CN 1H-Pyrrole-2-carboxamide, N-[2-[7-cyano-1,4-dihydro-6-(1-methyl-1H-pyrrol-2-yl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX

RN 587863-32-9 CAPLUS
CN 4-1soxazolecarboxamide, 3-(2-chloro-6-fluorophenyl)-N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl)-5-methyl-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-33-0 CAPLUS
CN Benzo[b]thiophene-2-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5fi-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

RN 597863-34-1 CAPLUS
CN 2-Quinoxalinecarboxamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

RN 587863-35-2 CAPLUS
2-Thiophenecarboxamide, 3-chloro-N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrold],2-d]pycimidin-5-yl)ethyl]-4-[(1-methylethyl)sulfonyl]-(9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

$$\bigcap_{N \to \infty}^{CN} \bigcap_{N \to \infty}^{Ph} \bigcap_{CH_2-CH_2-NH-C}^{O}$$

RN 587863-39-6 CAPLUS
CN IH-Indole-4-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole(3,2-d]pyciaidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

(Continued)

RN 587863-40-9 CAPLUS
HI-Benzimidacole-5-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5f-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587863-41-0 CAPLUS
CN 1H-Indole-2-carboxamide, N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]- [9CI] (CA INDEX NAME)

RN 587863-42-1 CAPLUS
CN IH-Indole-3-carboxamide, N-[2-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pycrole[3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{array}{c} \overset{\text{CN}}{\underset{\text{S}}{\text{N}}} \overset{\text{Ph}}{\underset{\text{CH}_2-\text{CH}_2-\text{NH-C}}{\text{CH}_2-\text{CH}_2-\text{NH-C}}} \overset{\text{S}}{\underset{\text{C}}{\text{N}}} \overset{\text{F}}{\underset{\text{C}}{\text{F}_{r-i}}} \overset{\text{CN}}{\underset{\text{C}}{\text{N}}} \overset{\text{Ph}}{\underset{\text{C}}{\text{N}}} \overset{\text{CN}}{\underset{\text{C}}{\text{N}}} \overset{\text{CN}}{\underset{\text{C}}} \overset{\text{CN}}{\underset{\text{C}}{\text{N}}} \overset{\text{CN}}{\underset{\text{C}}{\text{N}}} \overset{\text{CN}}{\underset{\text{C}}} \overset{\text{CN}}} \overset{\text{CN}}{\underset{\text{C}}} \overset{\text{CN}}{\underset{\text{C}}} \overset{\text{CN}}{\underset{\text{C}}} \overset{\text{CN}}{\underset{\text{$$

RN 587863-36-3 CAPLUS

CN IH-Pyrazole-4-carboxamide, 1-(4-chlorophenyl)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-5-(trifluoromethyl)-(9Cl) (CA INDEX NAME)

$$\bigcap_{N = 1}^{CN} \bigcap_{N = 1}^{Ph} \bigcap_{CH_2 - CH_2 - NH - C}^{CF_3} \bigcap_{N = 1}^{N} \bigcap_{N = 1}^{C1} \bigcap_$$

RN 587863-37-4 CAPLUS
CN 3-Furancarboxamide, 5-(4-chlorophenyl)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{CN} \\ \text{H} \\ \text{N} \\ \text{N} \\ \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} \\ \text{Me} \\ \end{array}$$

RN 587863-38-5 CAPLUS
CN 2-Naphthalenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (CC

RN 587863-43-2 .CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo5H-pyrrolo[3,2-d]pyrimidin-5-yl)athyl]-2-oxo- (9CI) (CA INDEX NAME)

RN 587863-44-3 CAPLÚS
CN 2H-Indazole-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycroloj,2-d)pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587863-45-4 CAPLUS
CN 1H-Pyrazole-3-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-nitro- (9CI) (CA INDEX NAME)

RN 587863-46-5 CAPLUS

2-Thiophenecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrol6(3,2-d)pyrimidin-5-yl)ethyl]-5-(methylthio)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

CH2-CH2-NH-

587863-47-6 CAPLUS
4-Isoxazolecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-chioxo-5H-pycrolc3],2-djpyrimidin-5-yl)ethyl]-5-methyl- (9CI) (CA INDEX NAME)

587863-48-7 CAPLUS
1H-Pyrrole-2-carboxamide, 4-acetyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrolo[3,2-d]pyrimidin-5-yl)ethyl]-3,5-dimethyl- (9CI) (CA INDEX NAME)

587863-49-8 CAPLUS 1H-Pyrcole-2-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl)-4-nitro- [9C] (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

(Continued)

587863-54-5 CAPLUS
4-Pyridinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587863-55-6 CAPLUS 4-Pyridinecarboxanide, N-{2-{7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587863-56-7 CAPLUS
4-Pyridinecarboxamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

587863-57-8 CAPLUS Cyclohexanecarboxamide, N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
S87863-50-1 CAPLUS
CN 3-Pyridinecarboxamide, 2-amino-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxoSH-pyrrolo[3,2-d]pyrimidin-5-y1)ethyl]- (9C1) (CA INDEX NAME)

587863-51-2 CAPLUS lH-Imidazole-4-carboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587863-52-3 CAPLUS
2-Pycidinecarboxamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587863-53-4 CAPLUS
3-Pyridinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ΙT

587863-58-9 CAPLUS 4-Isowazolecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-3,5-dimethyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \overset{\text{CN}}{\underset{S}{\text{N}}} & \overset{\text{CN}}{\underset{S}{\text{N}}} & \overset{\text{Ph}}{\underset{S}{\text{N}}} & \overset{\text{Me}}{\underset{S}{\text{N}}} & \overset{\text{Me}}{\underset{S}} & \overset{\text{Me}}{\underset{S}{\text{N}}} & \overset{\text{Me}}{\underset{S}{\text{N}}} & \overset{\text{Me}}{\underset{S}} & \overset{\text{N}}{\underset{S}} & \overset{\text{N}}{\underset{$$

587863-59-0P 587863-60-3P 587863-61-4P 587863-62-5P 587863-63-69 587863-64-7P 587863-65-8P 587863-66-9P 587863-67-5P 587863-66-9P 587863-67-5P 587863-69-1P 587863-69-1P 587863-72-7P 587863-73-6P 587863-73-4P 587863-73-4P 587863-73-4P 587863-73-4P 587863-73-4P 587863-73-4P 587863-73-4P 587863-73-4P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-8P 587863-81-4P 587863-81-5P 587863-91-5P 587863-91-5P 587863-91-5P 587863-91-5P 587863-91-5P 587863-91-5P 587863-91-5P 587864-02-6P 587864-03-5P 587864-03-5P 587864-03-5P 587864-03-5P 587864-11-7P 587864-11-3P 587864-13-3P 587864-30-6P 58786

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) \$37864-63-9P \$87864-64-0P \$87864-65-1P \$87864-65-95 \$87864-67-0P \$87864-65-1P \$87864-69-5P \$87864-67-0P \$87864-65-1P \$87864-67-5P \$87864-67-0P \$87864-70-8P \$87864-71-1P \$87864-72-0P \$87864-70-8P \$87864-71-1P \$87864-72-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-73-1P \$87864-80-0P \$87864-81-1P \$87864-83-3P \$87864-80-0P \$87864-81-1P \$87864-83-3P \$87864-80-0P \$87864-81-1P \$87864-89-9P \$87864-80-0P \$87864-91-3P \$87864-89-9P \$87864-90-2P \$87864-91-3P \$87864-90-5P \$87864-90-5P \$87864-90-5P \$87864-90-1P \$87864-90-1P \$87864-90-5P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87864-90-1P \$87865-01-1P \$87865-02-9P \$87865-03-1P \$87865-01-3P \$87865-01-3P \$87865-02-9P \$87865-10-1P \$87865-01-8P \$87865-01-3P \$87865-01-

(Uses)
(drug candidate: prepn. of pyrrolopyrimidine derivs. as GSK-3 inhibitors)
587863-59-0 CAPLUS
Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Benzoic acid, 4-[[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]amino|methyl]-, methyl ester (9CI) (CA INDEX NAME)

587863-64-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[[(4-nitrophenyl)methyl]amino]propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587863-65-8 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-[[(4-methoxyphenyl)methyl]amino]propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587863-66-9 CAPLUS

1H-Pyrrolo[3,2-d]pyrimidine-7-caebonitrile, 4,5-dihydro-5-[3-[[[4-(methylsulfonyl)phenyl]methyl]amino]propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587863-60-3 CAPLUS Benzamide, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimdin-5-yl)propyl]- (9CI) (CA INDEX NAME)

587863-61-4 CAPLUS
Benzoic acid, 4-{[[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl}amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

S87863-62-5 CAPLUS
Benzoic acid. 4-[[]3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyriadin-5-yl)propyl]amino]carbonyl]- (9CI) (CA INDEX NAME).

587863-63-6 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587863-67-0 CAPLUS
Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)

587963-68-1 CAPLUS
Urea, N-{3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1)propyl]-N'-phenyl- (SCI) (CA INDEX NAME)

587863-69-2 CAPLUS Benzoic acid. 3-[[[[3-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d)pyrimidin-5-yl)propyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

587863-70-5 CAPLUS
Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-[3-(diethylamino)propyl]- (9CI) (CA INAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) . S87863-71-6 CAPLUS CN | Ucea, N-[2-(7)-cyano-1, 4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3, 2-dpyrimidin-5-yl)ethyl]-N'-(2-cyclohexylethyl)- (9C1) (CA INDEX NAME)

S87863-72-7 CAPLUS
Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-,d]pyrimidin-5-yl)ethyl]-N'-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

S87863-73-8 CAPLUS Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)

587863-74-9 CAPLUS Urea, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1)propyl]-N'-[3-(diethylamino)propyl]- (9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  $\beta$ -Alanine, N-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytrimidin-5-yl)ethyl]amino|carbonyl]- [9CI) (CA INDEX NAME)

597863-79-4 CAPLUS Glycine, N-[[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimdin-5-yl)propyl]aminolcarbonyl]- (9CI) (CA INDEX NAME)

S87863-80-7 CAPLUS
B-Alanine, N-[[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d)pycrimidin-5-yl)propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

587863-81-8 CAPLUS Butanoic acid, 4-[[[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]amino]carbonyl]amino]- (9CI) INDEX NAME)

587863-82-9 CAPLUS Benzoic acid, 4-{{{[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587863-75-0 CAPLUS Urea, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimdin-5-yl)propyl]-N'-(2-cyclohexylethyl)- (9CI) (CA INDEX NAME)

587863-76-1 CAPLUS Urea, N-[3-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-N'-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

587863-77-2 CAPLUS
Thiourea, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)

587863-78-3 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrcolo[3,2-d]pyrimidin-5-y1)ethyl]amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587863-83-0 CAPLUS
Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-(3-fluorophenyl)- (9CI) (CA INDEX NAME)

587863-84-1 CAPLUS Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d|pyrimidin-5-y1)ethyl|-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

587863-85-2 CAPLUS Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-(3-methylphenyl)- (9CI) (CA INDEX NAME)

$$\bigcap_{N} \bigcap_{N-CH_2-CH_2-NH-C-NH} \bigcap_{M \in \mathcal{M}} \bigcap_{M \in \mathcal{M}}$$

587863-86-3 CAPLUS Urea, N-[2-(T-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]-M'-(2-methylphenyl)- (9Cl) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587863-87-4 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

RN 587863-88-5 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)

RN 587863-89-6 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continu

RN 587863-94-3 CAPLUS
CN Cyclopentanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-SH-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587863-95-4 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2-furany1)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl}- (9CI) (CA INDEX NAME)

RN 587863-96-5 CAPLUS
CN Benzeneacetanide, N-[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587863-97-6 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2-furany1)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587863-90-9 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl)-N'-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 587863-91-0 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-(2-fluorophenyl)- (9CI) (CA INDEX NAME)

RN S87863-92-1 CAPLUS
CN Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N'-2-naphthalenyl- (9CI) (CA INDEX NAME)

RN 587863-93-2 CAPLUS
CN Acetamide, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidin-5-yl)propyl]- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN . (Continued)

RN 587863-98-7 CAPLUS
CN 2-Thiophenecarboxamide, N-{2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587863-99-8 CAPLUS
CN 4-Pyridinecarboxamide, N-[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

$$\begin{array}{c} \text{CN} \\ \text{N} \\ \text{N} \\ \text{S} \end{array} \begin{array}{c} \text{CN} \\ \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} \\ \text{O} \\ \text{O} \end{array} \begin{array}{c} \text{N} \\ \text{N} \\ \text{O} \end{array}$$

RN 587864-00-4 CAPLUS
CN Urea, N-[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S CH2-CH2-NH-C-NHPh

RN 587864-01-5 CAPLUS

Benzoic acid, 4-[[[[2-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]amino]-, methyl ester (SCI) (CA INDEX NAME)

RN 587864-02-6 CAPLUS
CN Benzamide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl]- (9Cl) (CA INDEX NAME)

RN 587864-03-7 CAPLUS
CN Benzeneacetamide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl}- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-07-1 CAPLUS
CN Cyclobutanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587864-08-2 CAPLUS
CN 2-Thiopheneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587864-09-3 CAPLUS
CN 4-Piperidinecarboxamide, 1-acetyl-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587864-10-6 CAPLUS
CN Benzamide, N-[2-{7-cyano-1,4-dihydco-6-phenyl-4-thioxo-5H-pyccolo[3,2-d]pyrimidin-5-yl)ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587864-04-8 CAPLUS
CN Benzamide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]propyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587864-05-9 CAPLUS
CN 2-Thiophenearboxamide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo5H-pyrcolo[3,2-d]pyrimidin-5-yl]propyl]- [9C1) (CA INDEX NAME)

RN 587864-06-0 CAPLUS
CN 4-Pyridinearboxanide, N-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl[propyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-11-7 CAPLUS
CN Propanamide, N-[2-(7-cyano-1,4-dihydco-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidin-5-y]ethyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

RN 587864-12-8 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrrolo[3,2-d)pyrimidin-5-yl]ethyl]-2-nitro- (9CI) (CA INDEX NAME)

RN 587864-13-9 CAPLUS
CN Benzamide, 4-cyano-N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587864-14-0 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzeneacetamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-thioxo-5H-pytrolo[3,2-d]pytrmidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587864-15-1 CAPLUS
CN Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587864-16-2 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl)-3-methyl- (9CI) (CA INDEX NAME)

RN 587864-17-3 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(3-hydroxyphenyl)-4-thioxo-5H-pycrole[3,2-d)pyrlaudin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

RN 587864-21-9 CAPLUS
CN 2-Pyrrolidinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl}-5-oxo- (9CI) (CA INDEX NAME)

RN 587864-22-0 CAPLUS
3-Furancarboxamide, N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytmidin-5-yl)ethyl]tetrahydro-2,2-dimethyl-5-oxo- [9CI] (CA INDEX NAME)

RN 587864-23-1 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2-furany1)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

RN 587864-24-2 CAPLUS
CN Benzenecarbothioamide, N-[2-{7-cyano-1,4-dihydro-6-(3-hydroxyphenyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-18-4 CAPLUS
CN 2-Fucancarboxam.de, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole[3,2-d]pyrim.idin-5-yl]ethyl]tetrahydro-(9CI) (CA INDEX NAME)

RN 587864-19-5 CAPLUS
CN 2-Furancarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo(3,2-d]pyrimidin-5-yl)ethyl)tetrahydro-5-oxo- (9CI) (CA INDEX NAME)

RN 587864-20-8 CAPLUS
A-Furancacboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyi-4-thioxo-5H-pyrolo[3,2-d]pyrimidin-5-yl)ethyl]tectahydro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-25-3 CAPLUS
CN Cyclohexanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-methoxy- (9C1) (CA INDEX NAME)

RN 587864-26-4 CAPLUS
CN Butanoic acid, 4-[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]aminoj-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587864-27-5 CAPLUS
CN Butanoic acid, 4-[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

RN 587864-28-6 CAPLUS
CN Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo(3,2-d)pycimidin-5-yl)ethyl]-2-(dimethylamino)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587864-29-7 CAPLUS
Heptanoic acid, 7-{[2-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]-7-oxo-, ethyl ester (9CI) (CA INDEX NAME)

587864-30-0 CAPLUS

IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587864-31-1 CAPLUS
Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-a-methoxy- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587864-38-8 CAPLUS
Benzamide, N-[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)propyl}-2-(dimethylamino)- (9CI) (CA INDEX NAME)

587864-39-9 CAPLUS
Cyclopropanecarboxamide, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-1-hydroxy- (9CI) (CA INDEX NAME)

587864-40-2 CAPLUS
Cyclopropanecarboxamide, 1-cyano-N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]- (9C1) (CA INDEX NAME)

587864-41-3 CAPLUS
IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(2-methyl-4-oko-3(4H)-quinazolinyl)propyl]-6-phenyl-4-thioxo- (9Cl) (CA INDEX NAME)

587864-42-4 CAPLUS

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 597864-32-2 CAPLUS
CN 2-Thiazolidinecarboxamide, N-[2-(7-cyano-1, 4-dihydro-6-phenyl-4-thioxo-5Hpyrrolo[3, 2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587864-33-3 CAPLUS Cyclopropanecsynamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-1-hydroxy- (9C1) (CA INDEX NAME)

587864-35-5 CAPLUS 58/864-35-3 CAPLUS Cyclopropanecarboxamide, 1-cyano-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo(3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587864-37-7 CAPLUS 2-Thiazolidinecarboxamide, N-(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole(3,2-d)pyrimidin-5-yl)propyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) CN Acetamide, N-[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2,2-trifluoro-N-methyl-[9C1] (CA INDEX NAME)

587864-43-5 CAPLUS
Benzamide, N-[2-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl}-N-methyl- (9CI) (CA INDEX NAME)

597864-44-6 CAPLUS Benzamide, 2-amino-N-[2-(7-cyano-1,4-dihỳdro-6-phenyl-4-thioxo-SH-pyrrolo[3,2-d|pyrimidin-5-yl)ethyl]-N-methyl- (9CI) (CA INDEX NAME)

587864-45-7 CAPLUS
Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N-methyl-2-(methylamino)- (9CI) (CA INDEX NAME)

587864-46-8 CAPLUS
Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methoxy-N-methyl- (9CI) .(CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

RN 587864-47-9 CAPLUS
CN Propanamide, 2-(4-chlorophenoxy)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methyl- (9CI) (CA INDEX NAME)

RN 587864-48-0 CAPLUS
CN Benzeneacetamide, N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl)ethyl]-a-phenyl- (9CI) (CA INDEX NAME)

RN 587864-49-1 CAPLUS
CN 2-Butenamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipydrimidin-5-yl)ethyl]- (9Cl) (CA INDEX NAME)

RN 587864-50-4 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Conti

RN 587864-54-8 CAPLUS
CN Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-phenoxy- (9C1) (CA INDEX NAME)

RN 587864-55-9 CAPLUS
CN Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)

RN 587864-56-0 CAPLUS
Propanoic acid, 3-{[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl)ethyl]amino]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

RN 587864-57-1 CAPLUS
CN Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Propanamide, 2-(acetyloxy)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methyl- (9CI) (CA INDEX NAME)

RN 587864-51-5 CAPLUS
CN 2-Propenamide, N-{2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-phenyl- (9CI) (CA INDEX NAME)

RN 587864-52-6 CAPLUS
CN Propanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]-2-phenoxy- (9CI) (CA INDEX NAME)

RN 587864-53-7 CAPLUS
CN Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2-methoxy- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587864-58-2 CAPLUS
CN Cyclopentaneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587864-59-3 CAPLUS
CN 4-Piperidinecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]-1-(methylaulfonyl)- (9CI) (CA INDEX NAME)

RN 587864-60-6 CAPLUS
CN Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methoxy- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587864-61-7 CAPLUS

Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587864-62-8 CAPLUS Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimdin-5-y)lethyl]-3,5-difluoro- (9CI) (CA INDEX NAME)

$$\bigcap_{N \to \infty} \bigcap_{N \to \infty} \bigcap_{CH_2 - CH_2 - NH - C} \bigcap_{N \to \infty} \bigcap_{F \to \infty} \bigcap_{F \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{N \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{F \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{N \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{CH_2 - NH - C} \bigcap_{N \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{CH_2 - NH - C} \bigcap_{N \to \infty} \bigcap_{CH_2 - NH - C} \bigcap_{CH_2 - N$$

587864-63-9 CAPLUS Benzeneacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyriaddin-5-yl]ethyl]-a-ethyl- (9CI) (CA INDEX NAME)

587864-64-0 CAPLUS Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimdin-5-y)tethyl]-2-(phenylthio)- (9CI) (CA INDEX NAME)

 $\begin{array}{lll} 587864-65-1 & CAPLUS \\ Acetamide, & N-[2-\{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-2-[2-methoxyethoxy]- & (9CI) & (CA INDEX NAME) \\ \end{array}$ 

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN \$87864-69-5 CAPLUS

CN Carbamic acid, [(1S)-1-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]amino]carbonyl]-3-methylbutyl]-,

phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

587864-70-8 CAPLUS
Carbamic acid, [[15]-2-[[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3],2-d]pyrindidin-5-yl)ethyl]amino]-1-methyl-2-oxoethyl]-,
phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

587864-71-9 CAPLUS
Carbamic acid, [2-{[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrindidin-5-yl)ethyl]amino]-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

587864-72-0 CAPLUS .
Propanamide, 2-(acetylamino)-N-(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

587864-66-2 CAPLUS Butananide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587864-67-3 CAPLUS Butanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

587864-68-4 CAPLUS
3-Pyrcolidinecarboxamide, 1-{{4-chlorophenyl}methyl}-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}ethyl}-5-oxo-(9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) SH-pyrcolo[3,2-d]pyrimidin-5-yllethyl]- (9CI) (CA INDEX NAME)

587864-73-1 CAPLUS

587864-73-1 CAPLUS
Pentanamide, 2-(acetylamino)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo
5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

587864-74-2 CAPLUS
Carbamic acid, [2-[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[[3,2-d]pyrimidin-5-yl]ethyl]amino]-2-oxoathyl]methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

587864-75-3 CAPLUS Acetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidn-5-y)ethyl]-2-(2-pyrimidinylthio)- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-77-5 CAPLUS
3-Pyridinecarboxamide, N-[2-[[2-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}ethyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587864-78-6 CAPLUS
CN Butanediamide, N'-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

RN 597864-79-7 CAPLUS
CN 4-Pentynamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1)ethyl]- (9Cl) (CA INDEX NAME)

$$\bigcap_{N} \bigcap_{N} \bigcap_{CH_2-CH_2-NH-C-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-CH_2-C} \bigcap_{CH_2-CH_2-C} \bigcap_{CH_2-C} \bigcap_{CH_$$

RN 587864-80-0 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-85-5 CAPLUS.
CN Propanamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d|pyrcinidin-5-yl)ethyl]-2-hydroxy-2-methyl- (9C1) (CA INDEX NAME)

RN 587864-86-6 CAPLUS
CN Cyclopropanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole(3,2-d|pyrimidin-5-yl)ethyl]-1-methyl- (9C1) (CA INDEX NAME)

RN 587864-87-7 CAPLUS
CN Carbamic acid, [3-[(2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

RN 587864-88-8 CAPLUS
CN Cyclopropanecarboxamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]-2-methyl- (9C1) (CA INDEX NAME)

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L16 AMSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzamide, N-[2-[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

RN 587864-81-1 CAPLUS . CN 1H-Inidazole-4-propanamide, α-{acetylamino}-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

RN 587864-83-3 CAPLUS
CN Benzamide, N-[2-[6-(2-chloropheny1)-7-cyano-1,4-dihydro-4-thioxo-5H-pyr-0ol(3,2-d)pyr-indin-5-y1]ethy1]- (9C1) (CA INDEX NAME)

RN 587864-84-4 CAPLUS
CN Benzenacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pytrolo[3,2-d]pytmidin-5-yl]ethyl]-2-nitro- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587864-89-9 CAPLUS
CN Butanoic acid, 4-[[2-(7-cyano-1,4-dihydro-6-phenyl-4-chioxo-5H-pyrrolo[3,2-d]pyrimidin-5-y1)ethyl]amino]-4-oxo- (9CI) (CA INDEX NAME)

RN \$87864-90-2 CAPLUS
CN Butanamide, 2-(acetylamino)-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5Hpyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-(methylthio)- (9CI) (CA INDEX NAME)

RN 587864-91-3 CAPLUS
CM Benzeneaulfonamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrinidin-5-yl)ethyl]- [9CI] (CA INDEX NAME)

RN 587864-92-4 CAPLUS
CN Benzenecarbothioamide, N-[2-{7-cyano-6-(2-fluorophenyl)-1,4-dihydro-4-thioxo-5H-pytrolo[3,2-d]pytrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

Ph-C-NH-CH₂-CH₂

RN 587864-93-5 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyccolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

Ph-C-NH-CH2-CH2

RN 587864-94-6 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

NC F

S CH₂- CH₂- NH- C

O F

RN 587864-95-7 CAPLUS
CN Benzoic acid, 4-[[[2-[7-cyano-6-(2,6-difluorophenyl]-1,4-dihydro-4-thioxo-5H-pycrolo[3,2-d]pycrmidin-5-yl]ethyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

(Continued)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

RN 587864-99-1 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-3-methyl- (9CI) (CA INDEX NAME)

RN 587865-00-7 CAPLUS
CN 2-Furancarboxamide, N-[2-[7-cyano-6-[2,6-difluorophenyl]-1,4-dihydro-4-thioxe-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9Cl) (CA INDEX NAME)

RN 587865-01-8 CAPLUS
CN 2-Thiophenecarboxamide, N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

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RN 587864-96-8 CAPLUS
CN Bezamide, N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-methoxy- (9CI) (CA INDEX NAME)

RN 587864-97-9 CAPLUS
CN Benzamide, 2-amino-N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl}- (9CI) (CA INDEX NAME)

RN 587864-98-0 CAPLUS CN Benzamide, 2-amino-N-[2-[7-cyano-6-[2,6-difluorophenyl]-1,4-dihydro-4-thioxo-5H-pytrolo[3,2-d]pytimidin-5-yl]ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-02-9 CAPLUS
CN 1H-Pyrrole-2-carboxamide, N-[2-[7-cyano-6-(2,6-difluorophenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

NN 587865-03-0 CAPLUS
CN Benzamide, N-(2-(7-cyano-1,4-dihydro-6-(3-methyl-2-benzofuranyl)-4-thioxoSH-pycrolo(3,2-d|pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587865-04-1 CAPLUS
CN Benzenecarbothioamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-benzofuranyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 587865-05-2 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(3,5-dihydroxyphenyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587865-06-3 CAPLUS
CN Benzamide, N-[2-[6-(4-acetylphenyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

RN 587865-07-4 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-[3-(dimethylamino) phenyl]-1,4-dihydro-4-thioxoSH-pyrcolo[3,2-dipyrimidin-5-yl]ethyl]- [9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-11-0 CAPLUS
CN 3-Pyridinecarboxamide, 2-amino-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587865-12-1 CAPLUS
CN Benzamide, N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-2,4-dihydroxy- (9CI) (CA INDEX NAME)

RN 507865-13-2 CAPLUS
CN 2-Thiophenecarboxamide, 5-acetyl-N-[2-[6-(3-chloro-2-thienyl)-7-cyano-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA_INDEX_NAME)

L16 ANSWER 6 OF 60 CAPLUS, COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-08-5 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-4-thioxo-6-(3,4,5-trimethoxyphenyl)SH-pyrcolo[3,2-d-]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

RN 587865-09-6 CAPLUS
CN Benzamide, N-[2-[7-cyano-6-(3-fluoro-2-methylphenyl)-1,4-dihydro-4-thioxo5H-pyrtol(3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

RN 587865-10-9 CAPLUS
CN Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(4-methoxy-2-methylphenyl)-4-thioxo5H-pyrcolc[3,2-d]pyrimidin-5-yl]ethyl]- (9C1) (CA INDEX NAME)

1.16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-14-3 CAPLUS
CN Benzamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]ethyl]-4-[2-(4-morpholinyl)ethoxy]- (9C1) (CA INDEX NAME)

RN 587865-15-4 CAPLUS
CN Benzoic acid, 4-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]aminojmethyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 587865-16-5 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-[{[4-nitrophenyl]methyl]amino]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587865-17-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-[[(4-methoxyphenyl)methyl]amino]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN NAME)

587865-18-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-[[[4-(methylsulfonyl)phenyl]methyl]amino]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-19-8 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-[2-[[{4-cyanopheny1]methyl]amino]ethyl]-4,5-dihydro-6-pheny1-4-thioxo- (9CI) (CA INDEX NAME)

587865-20-1 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-[[(2-nitrophenyl)methyl]amino]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Benzoic acid, 4-[[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thloxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]amino]- [9CI) (CA INDEX NAME)

587865-25-6 CAPLUS Urea, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrindin-5-yl)ethyl]-M'-(4-methylphenyl)- (9CI) (CA INDEX NAME)

587865-26-7 CAPLUS
Urea, N-(4-acetylphenyl)-N'-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587865-27-8 CAPLUS
Ucea, N-(3-acetylphenyl)-N'-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9CI) (CA INDEX NAME)

587865-28-9 CAPLUS
Benzamide, 2-amino-N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]- (9CI) (CA INDEX,NAME)

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1.16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-21-2 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-[[(2-methoxyphenyl)methyl]amino]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-22-3 CAPLUS Glycine, N-[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

587865-23-4 CAPLUS
Butanoic acid, 4-[[[[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

587865-24-5 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-29-0 CAPLUS Acetamide, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-dipyriadin-5-yl)propyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

Se7865-30-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-methyl-2-thienyl)-5-[2-(4-quinazolinylamino)ethyl]-4-thioxo- (9CI) (CA INDEX NAME)

587865-31-4 CAPLUS Acetamide, N-[3-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-d]pyrimidin-5-yl)propyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

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S87865-32-5 CAPLUS
Benzamide, N-[2-(7-cyano-1,4-dihydro-4-oxo-6-phenyl-5H-pyrrolo[3,2-dipyrindin-5-y)| ethyl]-4-fluoro- (9CI) (CA INDEX NAME)

587865-33-6 CAPLUS
Benzamide, N-[2-[7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-4-oxo-5Hpytrolo[3,2-d]pytimidin-5-yl]ethyl]-4-fluoro-(9CI) (CA INDEX NAME)

587865-34-7 CAPLUS
Benzamide, N-[2-(7-cyano-1,4-dihydro-6-(3-methyl-2-thienyl)-4-oxo-5H
pycrolo(3,2-d)pyrimidin-5-yl]ethyl)-4-fluoro- (9Cl) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 597865-38-1 CAPLUS SH-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N,N-diethyl-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-39-2 CAPLUS 5H-Pyrrolo[3.2-d]pyrimidine-5-propanamide, ?-cyano-1.4-dihydro-N-(1-methylethyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-40-5 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(1-ethylpropyl)-1,4-dhydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-41-6 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(2,2-dimethylpropyl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-42-7 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo-N-(2,2,2-trifluoroethyl)- (9C1) (CA INDEX NAME)

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587865-35-8 CAPLUS
2-Furanacetamide, N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]-a-oxo- (9C1) (CA INDEX NAME)

587865-36-9 CAPLUS
3-Pyridinecarboxamide, 6-chloro-N-[2-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)ethyl]- (9C1) (CA INDEX NAME)

587865-37-0 CAPLUS
5H-Pyrrolo(3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-43-8 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(3-ethoxypropyl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587865-44-9 CAPLUS SH-Pyrcolo(3,2-d)pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-(methylamino)-2-oxoethyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-45-0 CAPLUS (3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo(3,2-d)pycrindin-5-yl)-1-oxopropyl)amino|- (9C1) (CA INDEX NAME)

587865-46-1 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-[2-(diethylamino)ethyl]-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-47-2 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-cyclopentyl-1 dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-48-3 CAPLUS 5H-Pyrrolo[3,2-4]pyrimidine-5-propanamide, 7-cyano-N-cycloheptyl-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-49-4 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-N-(l-methyl-4-piperidinyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-50-7 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(cyclopropylmethyl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 597865-54-1 CAPLUS SH-Pycrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(4-fluorophenyl)-1,4-dlhydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-55-2 CAPLUS 5H-Pyrrolo{3,2-d]pyrimidine-5-propanamide, N-(4-chlorophenyl)-7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

597865-56-3 CAPLUS 5H-Pyrcolol3,2-dlpyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-muthoxyphenyl)-6-phenyl-4-thioxo- (9Cl) (CA INDEX NAME)

587865-57-4 CAPLUS.
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(3-methoxyphenyl)-6-phenyl-4-thioxo- [9CI] (CA INDEX NAME)

587865-58-5 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-[3-(methylthio)phenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

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587865-51-8 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N,6-diphenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-52-9 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-6-(2-furany1)-1,4-dihydro-N-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-53-0 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-methylphenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

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587865-59-6 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-[4(cyanomethyl)phenyl]-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\bigcap_{N=1}^{H}\bigcap_{N=1}^{CN}\bigcap_{CH_2-CH_2-C-NH}\bigcap_{N=1}^{CH_2-CN}\bigcap_{N=1}^{CH_2-$$

587865-60-9 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, N-(4-acetylphenyl)-7-cyano-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\bigcap_{n} \bigvee_{l} \bigvee_{m} \bigcap_{l} \bigcap_{l} \bigcap_{m} \bigcap_{l} \bigcap_{m} \bigcap_{l} \bigcap_{m} \bigcap_{m} \bigcap_{l} \bigcap_{m} \bigcap_{m$$

587865-61-0 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, N-(3-acetylphenyl)-7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587965-62-1 CAPLUS SH-Pyrcolo(3,2-d)pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-N,6-diphenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587865-63-2 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(4-methoxyphenyl)-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-64-3 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-2-pyridinyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-65-4 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-4-pyridinyl-4-thioxo (9CI) (CA INDEX NAME)

587865-66-5 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-2-thiazolyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 587865-70-1 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-[(4-methoxyphenyl)methyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587865-71-2 CAPLUS SH-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N (2-phenylethyl)-4-chiowo- (9C1) (CA INDEX NAME)

587865-72-3 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(2-furanylmethyl)-1.4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-73-4 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(2-thienylmethyl)-4-thfoxo- (9CI) (CA INDEX NAME)

587865-74-5 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydco-6-phenyl-N-(2-pyridinylmethyl)-4-thioxo- (9Cf) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-67-6 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(2,3-dihydro-1H-inden-2-yl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587865-68-7 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-6-(2-furanyl)-1,4-dihydro-N-(phenylmethyl)-4-chioxo- (9CI) (CA INDEX NAME)

587865-69-8 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, N-{(4-chlorophenyl)methyl]-7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\bigcap_{N \to \infty} \bigcap_{N \to \infty} \bigcap_{CH_2 - CH_2 - C-NH-CH_2} \bigcap_{N \to \infty} \bigcap_{N \to$$

S87865-75-6 CAPLUS SH-Pyrrolo[3,2-0]pyrimidine-5-propanamide, 7-cyano-6-(2-furanyl)-1,4-dhydro-N-(2-pyridinylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

587865-76-7 CAPLUS
SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N(3-pyridinylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

587865-77-8 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-6-(2-furanyl)-1,4-dihydro-N-(3-pyridinylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

587865-78-9 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, N-[2-(5-chloro-3-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
pyridinyl)ethyl]-7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX
NAME)

RN 597865-79-0 CAPLUS
SH-Pyrcolo[3,2-d]pyrimidine-5-propanamide, N-[2-(5-chloro-3-pyridinyl)ethyl]-7-cyano-6-(2-furanyl)-1.4-dihydro-4-thioxo- (9CI) (CA 'NEOK NAME)

$$\begin{array}{c} \overset{\text{CN}}{\underset{\text{S}}{\bigvee}} & \overset{\text{CN}}{\underset{\text{CH}_2-\text{CH}_2-\text{C}-\text{NH-CH}_2-\text{CH}_2-\text{CH}_2}{\bigvee}} \\ \overset{\text{CN}}{\underset{\text{CH}_2-\text{CH}_2-\text{C}-\text{NH-CH}_2-\text{$$

RN 587865-80-3 CAPLUS
CN Pyrcolidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl-1-oxopropyl]- (9CI) (CA INDEX NAME)

RN 587865-81-4 CAPLUS
CN Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidin-5-yl)-1-oxopropyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 587865-86-9 CAPLUS
CN Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimidin-5-yl)-1-oxopropyl)-3,5-dimethyl- (9Cl) (CA INDEX NAME)

RN 587865-87-0 CAPLUS
CN 2-Piperidinecarboxylic acid, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 587865-88-1 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[3-[7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-82-5 CAPLUS
CN Piperidine, 1-[3-[7-cyano-6-[2-furany1)-1,4-dihydro-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-y1]-1-oxopropyl]; (9CI) (CA INDEX NAME)

RN 587865-83-6 CAPLUS
CN Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-2-methyl- (9CI) (CA INDEX NAME)

RN 587865-84-7 CAPLUS
CN Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl)-3-methyl- (9CI) (CA INDEX NAME)

$$\bigcap_{h=1}^{h}\bigcap_{h=1}^{$$

RN 587865-85-8 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587865-89-2 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-{3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl)-1-oxopropyl}-, ethyl ester (9CI) (CA INDEX NAME)

RN 587865-90-5 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 587865-91-6 CAPLUS
CN 3-Piperiodinecarboxamide, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrold)3,2-d)pycimidin-5-yl)-1-охоргоруl]- (9C1) (СА INDEX NAME)

RN 587865-92-7 CAPLUS
CN 4-Piperidinecarboxamide, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrclo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587865-93-8 CAPLUS 58/805-93-8 CAPLUS 4-Piperidinecarboxylic acid, 1-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]-1-oxopropyl]- (9CI) (CA INDEX

587865-94-9 CAPLUS
Piperidine, 4-benzoyl-1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl)- [9CI) (CA INDEX NAME)

587865-95-0 CAPLUS
Piperidine, 4-benzoyi-1-[3-[7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-5Hpycrolo[3,2-d]pyrimidin-5-yl]-1-oxopropyl]- (9C1) (CA INDEX NAME)

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) \$87867-24-1P \$87867-25-2P \$87867-26-3P \$87867-24-9 \$87867-228-5P \$87867-29-6P \$97867-30-9P \$87867-31-0P \$87867-32-1P \$97867-30-2P \$87867-31-3-P \$87867-32-1P \$97867-32-2P \$87867-32-9P \$87867-31-34-3P \$87867-32-1P \$87867-32-4P \$87867-35-5P \$87867-31-6P \$87867-34-1P \$87867-34-2P \$87867-42-1P \$87867-42-1P \$87867-42-1P \$87867-42-1P \$87867-42-1P \$87867-41-2P \$87867-42-1P \$87867-43-4P \$87867-42-1P \$87867-43-4P \$87867-43-4P \$87867-43-4P \$87867-43-4P \$87867-43-4P \$87867-43-4P \$87867-43-4P \$87867-52-5P \$87867-50-3P \$87867-51-4P \$87867-52-5P \$87867-50-3P \$87867-50-5P \$87867-51-4P \$87867-51-52-8P \$87867-50-3P \$87867-50-5P \$87867-51-6P \$87867-50-3P \$87867-50-5P \$87867-61-3P \$87867-70-7P \$87867-71-8P \$87867-71-3P \$87867-31-3P \$87867-31-4P \$87868-31-4P \$87

(Uses) (drug candidate: prepn. of pyrrolopyrimidine derivs. as GSK-3

(utug candidate; prepn. of pyrrolopyrimidine derivs. as GSK-3 inhibitors)
587865-96-1 CAPLUS
3-Piperidinecarboxamide, 1-[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-N,N-diethyl- (9CI) (CA INDEX NAME)

1,4-Dioxa-8-azaspiro[4.5]decane, 8-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

L16 ANSWER' 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

\$87865-96-1P \$87866-97-2P \$87865-98-3P \$87865-99-8P \$87866-00-P \$87866-01-1P \$87866-02-2P \$87866-03-3P \$87866-02-2P \$87866-03-3P \$87866-03-4P \$87866-03-5P \$87866-03-3P \$87866-03-5P \$87866-03-5P \$87866-03-5P \$87866-03-5P \$87866-10-2P \$87866-10-3P \$87866-11-3P \$87866-21-3P \$87866-21-3P \$87866-21-3P \$87866-22-3P \$87866-21-3P \$87866-22-3P \$87866-21-3P \$87866-22-3P \$87866-23-3P \$87866-23-3P \$87866-23-3P \$87866-31-3P \$87866

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587865-98-3 CAPLUS Morpholine, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d)pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

587865-99-4 CAPLUS Morpholine, 4-[3-[7-cyano-6-(2-furany1)-],4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl]- (9C1) (CA INDEX NAME)

587866-00-0 CAPLUS
Piperazinone, 4-{3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl}- (9CI) (CA INDEX NAME)

587866-01-1 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-dipyrimidin-5-yl)-1-coappoyyl-4-methyl- (9CI) (CA INDEX NAME)

$$\bigcap_{c} \bigcap_{N \to c} \bigcap_{H_2 - c \to H_2 - c \to N} \bigcap_{N \to c} \bigcap_$$

S87866-02-2 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d)pyrindidn-5-yl)-1-oxopropyl]-4-phenyl- (9C1) (CA INDEX NAME)

$$\bigcap_{h=1}^{H}\bigcap_{h=1}^{CN}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_{h=1}^{Ph}\bigcap_{h=1}^{N}\bigcap_$$

587866-03-3 CAPLUS
Piperazine, 1-3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimdin-5-y)-1-oxopropyl]-4-(4-pyridinyl)- (9C1) (CA INDEX NAME)

$$\bigcap_{N=1}^{H}\bigcap_{N=1}^{CN}\bigcap_{CH_2-CH_2-C-N}\bigcap_{N=1}^{N}\bigcap_$$

587866-04-4 CAPLUS
Piperazine, 1-(4-acetylphenyl)-4-(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-6H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587866-09-9 CAPLUS
Piperazine, 1-acetyl-4-{3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

587866-10-2 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-(2-furanylcarbonyl)- (9CI) (CA INDEX NAME)

587866-11-3 CAPLUS
Piperazine, 1-[3-[7-cyano-6-{2-furanyl}-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yI]-1-oxopropyl]-4-(2-furanylcarbonyl)- (9CI)
(CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
S87866-05-5 CAPLUS
CN Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-0xopropyl]-4-(ethoxyacetyl)- (9C1) (CA INDEX NAME)

587866-06-6 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

587866-07-7 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-di)pyrimidin-5-yl)-1-oxopropyl]-4-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

587866-08-8 CAPLUS
Piperazine, 1-(1,3-benzodioxol-5-ylmethyl)-4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587866-12-4 CAPLUS J-Piperazinecarboxylic acid, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

587866-13-5 CAPLUS
1-Piperazinecacboxylic acid, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcol6], 2-d|pyrimidin-5-y1)-1-oxopropyl}-, 1,1-dimethylethyl ester
(9C1) (CA INDEX NAME)

587866-14-6 CAPLUS
1-Piperazinecarboxylic acid, 4-[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5-pyperycrolc[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-15-7 CAPLUS
CN 5H-Pyrcolo(3,2-d)pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(3-(2-oxo-1-pyrcolidinyl)propyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-16-8 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, N-butyl-7-cyano-1,4-dihydro-N-methyl-6-phenyl-4-thioxo- (9C1) (CA INDEX NAME)

RN 587866-17-9 CAPLUS
CN 5H-Pyrrolo[3], 2-d] pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-methoxy-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-18-0 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-cyclopentyl-1,4-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN SH-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N,6-diphenyl4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-23-7 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(2-hydroxyphenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-24-8 CAPLUS
CN 5H-Pycrolo[3,2-d]pycimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(3-hydroxyphenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-25-9 CAPLUS
SN 5H-Pyrclo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(4-hydroxyphenyl)-6-phenyl-4-thioxo- (9CI) [CA INDEX NAME]

RN 587866-26-0 CAPLUS
CN 5H-Pyrcolo], 2-d]pyrimidine-5-butanamide, 7-cyano-N-(3-fluorophenyl)-1,4-dihydro-6-phenyl-14-thioxo- (9CI) (CA INDEX NAME)

Page 94

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN \$87866-19-1 CAPLUS CN SH-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-methyl-N-(l-methyl-4-piperidinyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-20-4 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-(cyclopropylmethyl)1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-21-5 CAPLUS
CN 5H-Pyrrolo(3,2-d)pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-[3-(4-morpholiny1)propyl]-6-phenyl-4-thiowo- (9CI) (CA INDEX NAME)

RN 587866-22-6 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-27-1 CAPLUS
CN 5H-Pyrc10[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-(4-fluorophenyl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587966-28-2 CAPLUS
CN 5H-Pyrcolo(3,2-d)pyrimidine-5-butanamide, N-(3-chlorophenyl)-7-cyano-1,4-dihydro-6-phenyl-4-thioko- (9CI) (CA INDEX NAME)

RN 587866-29-3 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, N-(4-chlorophenyl)-7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 597866-30-6 CAPLUS
CN SH-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(2-methoxyphenyl)-6-phenyl-4-thioxo- [9CI] (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-31-7 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(3-methoxyphenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-32-8 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(3-nitrophenyl)-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

$$\bigcap_{N} \bigcap_{N} \bigcap_{N-1} \bigcap_{CH_2)} \bigcap_{3-C-NH} \bigcap_{NO_2}$$

RN 587866-33-9 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-[4(cyanomethyl)phenyl}-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\stackrel{\text{CN}}{\underset{\text{N}}{\longrightarrow}} \stackrel{\text{Ph}}{\underset{\text{N}}{\longrightarrow}} \stackrel{\text{O}}{\underset{\text{CH}_2-\text{CN}}{\longrightarrow}} \stackrel{\text{CH}_2-\text{CN}}{\underset{\text{CH}_2-\text{CN}}{\longrightarrow}}$$

RN \$87866-34-0 CAPLUS CN \$H:Pycrolo[3,2-d]pyrimidine-5-butanamide, N-(4-acetylphenyl)-7-cyano-1,4-dihydro-6-phenyl-4-chioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued thiazolyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587966-39-5 CAPLUS
CN 5H-Eyrcolo(3,2-d)pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(phenylmethyl)-4-d-thioxo- (9C1) (CA INDEX NAME)

RN 587866-40-8 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-[(4-fluorophenyl)methyl]-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-41-9 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, N-[(4-chlorophenyl)methyl]-7-cyano-1,4-dihydro-6-phenyl-4-thioxo-[9C1] (CA INDEX NAME)

RN 587866-42-0 CAPLUS
CN 5H-Pycroloj,2-djpyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-[(4-methoxyphenyl)methyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-35-1 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-(4-ethynylphenyl)-1,4-dihydro-6-phenyl-4-thioxo- [9CI) (CA INDEX NAME)

RN 587866-36-2 CAPLUS
CN SH-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-2-pyridinyl-4-thioxor-(9Cl) (CA INDEX NAME)

RN 587866-37-3 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-4-pyridinyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-38-4 CAPLUS
CN 5H-Pycrolo[3,2-d]pycimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-2-

LIG ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-43-1 CAPLUS
CN SH-Pycrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(2-phenylethyl)-4-thioxo-(9CI) (CA INDEX NAME)

RN 587866-44-2 CAPLUS CN SH-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-[2-(4-fluorophenyl)e-thyl]-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-45-3 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-(2-furanylmethyl)-1,4-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587866-46-4 CAPLUS CN SH-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(2-thienylmethyl)-4-thioxo- (9Cl) (CA INDEX NAME) L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Cont

RN 597866-47-5 CAPLUS
CN 5H-Pyrcolol3.2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-6-phenyl-N-(2-pyridinylmethyl)-4-thioxo- (9C1) (CA INDEX NAME)

RN 587866-48-6 CAPLUS
CN Piperidine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrinidin-5-yl)-1-oxobutyl]- (9C1) (CA INDEX NAME)

RN \$97866-49-7 CAPLUS
CN Piperidine, l-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-l-oxobutyl]-3-methyl- (9Cl) (CA INDEX NAME)

RN 587866-50-0 CAPLUS
CN Piperidine, l-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-4-methyl- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-54-4 CAPLUS
CN 3-Piperidinecarboxamide, 1-[4-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]- (9CI) (CA INDEX NAME)

RN 587866-55-5 CAPLUS
CN 4-Piperidinecarboxamide, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyr-106[3,2-d]pyrimidin-5-yl)-1-oxobutyl]- (9CI) (CA INDEX NAME)

RN 587866-56-6 CAPLUS

3-Piperidinecarboxamide, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-cxobutyl]-N,N-diethyl- (9CI) (CA INDEX NAME)

RN 587866-58-8 CAPLUS 1,4-Dioxa-8-azaspiro[4.5]decane, 8-[4-(7-cyano-1,4-dihydro-6-phenyl-4-Page 96

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-51-1 CAPLUS
CN 2-Piperidinecarboxylic acid, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 587866-52-2 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[4-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-SH-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 587866-53-3 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo5H-pyrc1o[3,2-d]pyrimidin-5-yl}-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]- (9CI) (CA INDEX

RN 587866-60-2 CAPLUS
CN Piperidine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d|pyrimidin-5-yl-1-toxobutyl]-4-(1-pyrcolidinyl)- (9CI) (CA INDEX NAME)

RN 587866-62-4 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-4-oxo-, methyl ester (9CI) (CA:INDEX NAME)

RN 587866-64-6 CAPLUS
CN Piperazinone, 4-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl}- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

H Ph O NH NH (CH2) 3-C-N

RN 587866-65-7 CAPLUS
CN Piperarine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-4-methyl- (9CI) (CA INDEX NAME)

CN Ph O N Me

RN 587866-66-8 CAPLUS
CN Piperazine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d|pyrimidin-5-yl)-1-oxobutyl]-4-phenyl- (SCI) (CA INDEX NAME)

 $\bigcap_{s}^{H}\bigcap_{N-(CH_2)}^{CN}\bigcap_{3-C-N}^{Ph}\bigcap_{N}^{Ph}$ 

RN 587866-67-9 CAPLUS
CN Piperazine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)1-l-oxobutyl]-4-(4-pyridinyl)- (9C1) (CA INDEX NAME)

RN 587866-68-0 CAPLUS
CN Piperazine, 1-(4-acetylphenyl)-4-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-SH-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]- (SCI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-72-6 CAPLUS
CN Piperazine, 1-acetyl-4-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrol6], 2-d] pyrimidin-5-yl)-1-oxobutyl]- (9C1) (CA INDEX NAME)

RN 587866-73-7 CAPLUS
CN Piperazine, 1-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-4-(2-furanylcarbonyl)- (9CI) (CA INDEX NAME)

RN 587866-74-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl}-, ethyl ester (9CI) (CA INDEX NAME)

RN 587866-75-9 CAPLUS

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587866-69-1 CAPLUS
CN Piperazine, l-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-l-oxobutyl]-4-(phenylmethyl)-. (9CI) (CA INDEX NAME)

RN 587866-70-4 CAPLUS
CN Piperazine, 1={4-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl}-4-{2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587866-71-5 CAPLUS Piperazine, l-(1,3-benzodioxol-5-ylmethyl)-4-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo{3,2-d]pyrimidin-5-yl)-1-oxobutyl]- (9CI) (CAINDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1-Piperazinecarboxylic acid, 4-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxoSH-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxobutyl]-, phenylmethyl ester (9CI)
(CA INDEX NAME)

RN 597866-76-0 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-[3-(2-oxo-1-pyrrolidiny1)propy1]-6-pheny1-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-77-1 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-[2-(3-fluorophenyl)ethyl]-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-78-2 CAPLUS
SH-Pyrcolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-(4-methoxyphenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587866-79-3 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-1,4-dihydro-N-[4-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (methylthio)phenyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

\$87866-80-6 CAPLUS IH-Azepine, 1-[3-(7-cysno-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimdigin-5-yl)-1-oxopropyl]hexahydro- (9C1) (CA INDEX NAME)

587866-81-7 CAPLUS
Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

587866-82-8 CAPLUS
Thiomorpholine, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d)pyrimdin-5-yl)-1-oxopropyl]- (9C1) (CA INDEX NAME)

587866-83-9 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

587866-87-3 CAPLUS
Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-2-ethyl- (9CI) (CA INDEX NAME)

S87866-88-4 CAPLUS Piperidine, 4-acetyl-1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrole[3,2-d]pyrimidin-5-yl)-1-oxopropyl)-4-phenyl- (9CI) (CA INDEX NAME)

$$\bigcap_{N \longrightarrow N-CH_2-CH_2-C-N}^{Ph} \bigcap_{N \longrightarrow CH_2-CH_2-C-N}^{Ph} Ac$$

587866-89-5 CAPLUS 1,4"-Bipiperdidine, 1"-(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo(3,2-d)pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

587866-90-8 CAPLUS Carbanic acid, [1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-3-pycrolidinyl}-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Piperidine, 4-bromo-1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

S87866-84-0 CAPLUS
1-Piperazineethanol, 4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcnlo[3,2-djpyrimidin-5-yl)-l-oxopropyl]- (9CI) (CA INDEX NAME)

$$\bigcap_{h}^{CH} \bigcap_{CH_2-CH_2-C-M}^{Ph} \bigcap_{CH_2-CH_2-OH}^{CH_2-CH_2-OH}$$

587866-85-1 CAPLUS Quinoline, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrindin-5-yl)-1-oxopropyl]decahydro- (9CI) (CA INDEX NAME)

587866-86-2 CAPLUS Azocine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]octahydro- (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 587866-91-9 CAPLUS
CN L-PCDine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

587866-92-0 CAPLUS
Proline, 1-[3-(royano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-dipyriadin-5-yl)-1-oxopropyl]-, methyl ester (9CI) (CA NNDEX NAME)

587866-93-1 CAPLUS L-Proline, 1-[3-(7-cyano-1,4-dihydro-6-phanyl-4-thioxo-5H-pyrrolo[3,2-dipyriadidn-5-yl)-1-oxopropyl]-, methyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

587866-94-2 CAPLUS L-Proline, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587866-95-3 CAPLUS
Pycrolidine, 1-(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrindin-5-yl)-1-oxopropyl]-2-(methoxymethyl)- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587866-96-4 CAPLUS
Pycidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyrimdin-5-yl)-1-oxopropyl]-1,2,3,6-tetrahydro-(9CI) (CA INDEX NAME)

$$\bigcap_{N = 1}^{H} \bigcap_{N = 1}^{CN} \bigcap_{N = 1}^{Ph} \bigcap_{N = 1}^{N} \bigcap_{N = 1}^{N$$

587866-97-5 CAPLUS
3-Piperidinol. 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S87867-02-5 CAPLUS
4-Piperidinol, 1-(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d)pyrimidin-5-yl)-1-oxopropyl]- (9Cf) (CA INDEX NAME)

587867-03-6 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrcolo[3,2-d)pyrindin-5-yl)-1-oxopropyl]-4-(2-pyrindinyl)- (9C1) (CA INDEX NAME)

587867-04-7 CAPLUS
Piperidine, 4-{4-chlorophenyl}-1-[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl]- (9CI) (CA INDEX NAME)

587867-05-8 CAPLUS Piperidine, 1-]-(7-cyano-1,4-dihydro-6-phpnyl-4-thioxo-5H-pycrolo[3,2-dipyrindigin-5-yl)-1-oxopropyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 587866-98-6 CAPLUS
CN | Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-dipyriadin-5-yl)-1-0xopropyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)

587866-99-7 CAPLUS
2-Piperidineethanol, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pycrolo[3,2-d]pycimidin-5-yl)-1-oxopcopyl]- (9CI) (CA INDEX NAME)

587867-00-3 CAPLUS
3-Piperidinemethanol, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl]- (9CI) (CA INDEX NAME)

587867-01-4 CAPLUS
Piperazine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\bigcap_{N \longrightarrow CH_2-CH_2-C}^{CN} \bigcap_{N \longrightarrow CH_2-Ph}^{Ph} \bigcap_{N \longrightarrow CH_2-Ph}^{CH_2-Ph} \bigcap_{N \longrightarrow CH_2-Ph}^{CH_2-Ph}^{CH_2-Ph}$$

S87867-06-9 CAPLUS
Isoquinoline, 2-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl}decahydro-, (4aR,8aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

587867-07-0 CAPLUS
Isoquinoline, 2-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl)decahydro-, (4aR,8aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

587867-08-1 CAPLUS
Piperazine, 1-[(4-chlorophenyl)methyl]-4-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thloxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl}-1-oxopropyl}- (9CI) (CA INDEX

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-09-2 CAPLUS
CN Carbamic acid. [[1-[3-(7-cyano-1.4-dihydro-6-phenyl-4-thioxo-5H-pyrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-3-piperidinyl]methyl]-, l,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 587867-10-5 CAPLUS
Carbamic acid, [2-[1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-piperidinyl]ethyl]-, l,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 587867-11-6 CAPLUS
Carbamic acid, [1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-piperidinyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-16-1 CAPLUS
CN 5H-Pyrclo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-N-1-piperidinyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-17-2 CAPLUS
CN Carbamic acid, [5-[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyr-tol(3,2-d]pyrimidin-5-yl)-1-oxopropyl]amino]pentyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 587867-18-3 CAPLUS
Carbamic acid, [2-[[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]amino]ethyl}-, 1,1-dimethylethyl ester [9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continu

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587867-12-7 CAPLUS
Piperidine, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)-(9CI) (CA INDEX NAME)

RN 587867-13-8 CAPLUS
CN -4-Piperidinemethanol, 1-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9C1) (CA INDEX NAME)

RN 587867-15-0 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[[3-[7-cyano-1,4-dihydro-6-[3-methyl-2-fucanyl)-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl]-1-oxopropyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-19-4 CAPLUS
CN Carbamic acid, [2-[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]amino]ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

RN 587867-20-7 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-methylpropyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-21-8 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-methoxyethy1)-6-pheny1-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-22-9 CAPLUS
CN SH-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N,N-bis(2-methylpropyl)-6-phenyl-4-thioxo- (SCI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587867-23-0 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-[2-(dimethylamino)ethyl]-N-ethyl-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-24-1 CAPLUS SH-Pyrcolo], 2-6 pyrimidine-5-propanamide, 7-cyano-N-[2-(diethylamino)ethyl]-1,4-dihydro-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587867-25-2 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(2-ethoxyethyl)-1,4-dihydro-6-phenyl-M-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

587867-26-3 CAPLUS

ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
587867-30-9 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-N-propyl-4-thioxo- (9C1) (CA INDEX NAME)

587867-31-0 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-[2-(4-morpholiny)]ethyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-32-1 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1.4-dihydro-N-[3-(2 methyl-1-piperidinyl)propyl]-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-33-2 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-[3-(4-morpholiny)propyl]-6-phenyl-4-thiowo- (9CI) (CA INDEX NAME)

587867-34-3 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-(2-cyclohexylethyl)-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN SH-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenylN,N-dipropyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-27-4 CAPLUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, N,N-dibutyl-7-cyano-1,4-dihydro-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

587867-28-5 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-29-6 CAPLUS 5H-Pyrcolo(3,2-d)pyrimidine-5-propanamide, 7-cyano-N-ethyl-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

587867-35-4 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N,N-dimethyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587867-36-5 CAPLUS 5H-Pyrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(1-methylethyl-6-phenyl-N-(phenylmethyl)-4-thioxo- (9CI) (CA INDEX NAME)

587867-37-6 CAPLUS Glycine, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-N-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

587867-38-7 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-6-phenyl-N-2-propynyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-39-8 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-6-phenyl-N-2-propenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 597867-40-1 CAPLUS
CN SH-Pyrrolo(3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenylN,N-bis (phenylmethyl)-4-thloxo- (9C1) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587867-41-2 CAPLUS
CN 5H-Pytrol6(3,2-d)pytimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-N-(1-methyl-3-pytrolidinyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-42-3 CAPLUS
CN 5H-Pyrcoloj,2-djpyrimidine-5-propanamide, 7-cyano-N-(1,3-dioxolan-2-ylmethyl)-1,4-dihydro-N-methyl-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) - methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-47-8 CAPLUS
CN 5H-Pytrol(3,2-d)pytimidine-5-propanamide, 7-cyano-N-cyclohexyl-1,4-dihydro-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-48-9 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, N-butyl-7-cyano-1,4-dihydro-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-49-0 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-ethyl-1,4-dihydro-6-phenyl-N-propyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-50-3 CAPLUS
CN 5H-Pyrroloi3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(2-methoxyethyl)-N-methyl-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-43-4 CAPLUS

CN Glycine, N-[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]-N-methyl-, ethyl ester (9CI) (CA INDEX NAME)

RN 587867-44-5 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-cyclopentyl-1,4-dihydro-6-phenyl-N-2-propenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587867-45-6 CAPLUS
CN 5H-Pyrrolol3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N,N-bis(1-meth)tehty)1-6-pheny1-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){10}} \put(0,$$

RN 587867-46-7 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-N-ethyl-1,4-dihydro-N-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-51-4 CAPLUS
CN 5H-Pyrcolo[3,2-d|pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-methyl-N-[1-methylethyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-52-5 CAPLUS
CN 5H-Pyrrolo(3,2-d)pyrimidine-5-propanamide, N-[2-(acetylamino)ethyl]-7cyano-1,4-dinydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-53-6 CAPLUS
CN Benzoic acid, 4-[[3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]amino]-, methyl ester [9CI] (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 587867-54-7 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-55-8 CAPLUS
CN 5H-Pyccolo[3,2-d]pycimidine-5-propanamide, 7-cyano-1,4-dihydco-N-[4-(methylthio)phenyl-6-phenyl-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-56-9 CAPLUS
CN 5H-Pycrolo[3,2-d]pycimidine-5-propanamide, N-[4-(aminosulfonyl)phenyl]-7cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\bigcap_{N = 1}^{H} \bigcap_{N = 1}^{CN} \bigcap_{N = 1}^{N} \bigcap_{N = 1}^{N$$

RN 587867-57-0 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, N-1,3-benzodioxol-5-yl-7-cyano1,4-dihydro-6-phenyl-4-thioxo- (SCI) (CA INDEX NAME)

RN 587867-58-1 CAPLUS
CN 5H-Pyrrolo[3.2-d]pyrimidine-5-propanamide, 7-cyano-N-(3,5-dimethoxyphenyl)-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-62-7 CAPLUS
CN 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-6-cyclopropyl-1,4-dihydro-N-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-63-8 CAPLUS CN 5H-Pytrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-6-(2-furanyl)-1,4dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-64-9 CAPLUS
CN 5H-Pytrol[3,2-d]pytimidine-5-propanoic acid, 7-cyano-6-(2-furanyl)-1,4-dihydro-4-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

RN 587867-65-0 CAPLUS
CN 5H-Pyccolo[3,2-d]pycimidine-5-butanoic acid, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 1,4-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-59-2 CAPLUS
CN Benzoic acid, 3-{(3-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

RN 587867-60-5 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-N-(3-nitrophenyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN \$87867-61-6 CAPLUS
CN SH-Pycrolo[3,2-d]pyrimidine-5-propanamide, N-[3-(aminocarbonyl)phenyl]-7cyano-1,4-dihydco-6-phenyl-4-thioxo- [9CI) (CA INDEX NAME)

$$\bigcap_{N = 1}^{CN} \bigcap_{N = 1}^{Ph} \bigcap_{CH_2 - CH_2 - C}^{O} \bigcap_{N = 1}^{C} \bigcap_$$

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-66-1 CAPLUS
CN 5H-Pyrclo[3,2-d]pyrimidine-5-butanoic acid, 7-cyano-1,4-dihydro-4-oxo-6-phenyl-, ethyl ester (9C1) (CA INDEX NAME)

RN 587867-67-2 CAPLUS CN 5H-Pyrcol[3,2-d]pyrimidine-5-butanoic acid, 7-cyano-1,4-dihydro-6-phenyl-4-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

RN 587867-68-3 CAPLUS CN 5H-Pyrrolo[3,2-d]pyrimidine-5-propanoic acid, 7-cyano-6-cyclopropyl-1,4-dihydro-4-thioxo-, methyl ester (9CI) (CA INDEX NAME)

RN 587867-69-4 CAPLUS
CN IH-Pyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-oxobutyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN . (Continued

RN 587867-70-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-(3-cyclohexyl-3-охоргоруl)4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-71-8 CAPLUS
CN IH-Fyrcolo(3,2-d)pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-oxo-4-phenylbuty)1-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-72-9 CAPLUS
CN 1-Piperidinecarboxamide, 4-[3-{7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-d]pyrimidin-5-yl)-1-oxopropyl]- (9C1) (CA INDEX NAME)

RN 587867-73-0 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(4-oxopentyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) d]pyrimidin-5-yl)-1-oxobutyl]-1-(methylaulfonyl)- (9CI) (CA INDEX NAME)

RN 587867-78-5 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(dimethylamino)-4,5-dihydro-4-thiowo-(9CI) (CA INDEX NAME)

RN 587867-79-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(1-pyrrolidinyl)4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-80-9 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(1-piperidinyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-81-0 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxy-1-piperidinyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 597867-74-1 CAPLUS
CN HH-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 5-(4-cyclohexyl-4-oxobutyl)-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-75-2 CAPLUS
CM IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(4-oxo-4-phenylbutyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,10) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$$

RN 587867-76-3 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(4-oxo-5-phenylpentyl)-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

$$\bigcap_{N} \bigcap_{Ph} \bigcap_{O} \bigcap_{|CH_2|} \bigcap_{3-C-CH_2-Ph} \bigcap_{N} \bigcap_{N}$$

RN 587867-77-4 CAPLUS
CN Pyrrolidine, 3-[4-(7-cyano-1,4-dihydro-6-phenyl-4-thioxo-5H-pyrrolo[3,2-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-82-1 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-[(1-methylethyl)amino]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-83-2 CAPLUS
CN HH-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(cyclopentylamino)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- [9CI) (CA INDEX NAME)

RN 587867-84-3 CAPLUS
CN. IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[(4-aminocyclohexyl)amino]-4,5-dihydro-5-(3-(1-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-85-4 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[(2-hydroxyethyl)amino]-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587967-86-5 CAPLUS
CN HH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 6-(dimethylamino)-4,5-dihydro5-[3-(1-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-87-6 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(ethylmethylamino)-4,5-dihydro-5-(3,-1-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-88-7 CAPLUS

CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(3-(1-methylethoxy)propyl]-6-(methyl-2-propenylamino)-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-89-8 CAPLUS

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-93-4 CAPLUS
CN 1H-Pyrcolof(3,2-d)pyrimidine-7-carbonitrile, 6-[(3R)-3-amino-1-pyrcolidinyl]-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo-(9CI)(CA INDEX NAME)

Absolute stereochemistry.

RN 587867-94-5 CAPLUS

RH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-{(35)-3-amino-1-pyrrolidinyl]-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo-(9CI)(CA INDEX NAME)

Absolute stereochemistry.

RN 587867-95-6 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-{3-(1-methylethoxy)propyl}-6-(1-piperidinyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4.5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(methyl-2-propynylamino)-4-thioxo- (9CI)
NAME)

RN 587867-90-1 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-{{2-hydroxyethyl)methylamino]-5-{3-(1-methylethoxy)propyl}-4-thioxo-(9CI)
(CA INDEX NAME)

RN 587867-91-2 CAPLUS
CN HF-Fycrolo[3,2-d]pyrimidine-7-carbonitrile, 4.5-dihydro-5-[3-(1-metbylchtoxy)propyl]-6-(1-pyrrolidinyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-92-3 CAPLUS
CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxy-1-pycrolidinyl)-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9Cl) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 587867-96-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(3,5-dimethyl-1-piperidinyl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

RN 587867-97-8 CAPLUS
CN HH-Pyrcoloj,2-djpyrimidine-7-carbonitrile, 4,5-dihydro-6-(3-hydroxy-1-piperidiny1)-5-[3-(1-methylethoxy)propy1]-4-thloxo- (9CI) (CA INDEX NAME)

RN 587867-98-9 CAPLUS
CN IH-Pytrolo[3,2-d]pyrimidine-7-carbonitrile, 6-[4-(aminomethyl)-1-piperidinyl]-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX NAME)

RN 587867-99-0 CAPLUS
CN 1H-Pycrolo[3,2-d]pycimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
methylethoxy)propyl}-6-[4-(4-pyridinyl)-1-piperazinyl]-4-thioxo- (9CI)
(CA INDEX NAME)

RN 587868-00-6 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(4-morpholinyl)-4-thioxo-(9C1) (CA INDEX NAME)

i-Pro- (CH2) 3

RN 587868-01-7 CAPLUS
CN IH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(1-piperazinyl)-4-thioxo-(9CI) (CA INDEX NAME)

1-PrO-(CH2)3

RN 587868-02-8 CAPLUS
(IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(4-methyl-1-piperazinyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

1-PrO- (CH2) 3

RN 587869-06-2 CAPLUS
CN IH-Pyrcolol3,2-d]pyrimidine-7-carbonitrile, 6-(hexahydro-1H-azepin-1-yl)4,5-dihydro-5-[2-(i-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

S (CH2) 3-OPr-1

RN 587868-07-3 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(hexahydro-1H-1,4-diazepin-1-yl)-4,5-dihydro-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9CI) (CA INDEX

i-PrO- (CH2) 3

RN 587968-08-4 CAPLUS
CN H-Fyrctolg]3,2-djpyrimidine-7-carbonitrile, 4,5-dihydro-6-(1H-imidazol-1-yl)-5-[3-(1-methylethoxy)propyl]-4-thioxo- (9C1) (CA INDEX NAME)

S (CH2) 3-OPr-i

RN 587868-09-5 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-(2-methyl-1H-imidazol-1-yl)-4-thioxo- (9CI) (CA INDEX NAME)

Page 106

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

i-Pro- (CH2) 3

RN 587868-03-9 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[3-(1-methylethoxy)propyl]-6-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperazinyl]-4-thioxo- (9C1) (CA INDEX NAME)

i-Pro- (CH2) 3

N N CH2- CH2- N

N N CN

RN 587868-04-0 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-[4-(2-hydroxyethyl)-1-piperazinyl)-5-[3-(1-methylethoxy)propyl]-4-thioxo-(9CI) (CA INDEX NAME)

RN 587868-05-1 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4.5-dihydro-5-[3-{1-methylethoxy)propyl}-6-(3-oxo-1-piperazinyl)-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

1-PrO- (CH2) 3

RN 587868-10-8 CAPLUS
CN Benzenecarbothioamide, N-[2-[7-cyano-6-(cyclopropylamino)-1,4-dihydro-4-thioxo-5H-pyrcolo[3,2-d]pyrimidin-5-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 587868-11-9 CAPLUS
CN Benzamide, N-[2-{7-cyano-1,4-dihydro-6-(3-hydroxy-1-pyrrolidiny1)-4-thioxoSH-pyrrolid;2-q-djprimidin-5-yl]ethyl]-4-fluoro- (9Cl) (CA INDEX NAME)

RN 587870-12-0 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2,5-dimethylphenyl)-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

O Me H H N CN

RN 587870-13-1 CAPLUS
CN 1H-Pyrrolo(3,2-d)pyrimidine-7-carbonitrile, 6-(2,5-dimethylphenyl)-4,5-dihydro-4-thioxoc (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

587870-14-2 CAPLUS |H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-furanyl)-4,5-dihydro-5-methyl-4-thioxo-(9CI) (CA INDEX NAME)

587870-15-3 CAPUS 5H-Pyrcolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-N-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

587870-16-4 CAPLUS SH-Pycrolo[3,2-d]pyrimidine-5-propanamide, 7-cyano-1,4-dihydro-6-(3-methyl-2-furanyl)-N-(3-pyridinylmethyl)-4-thioxo-(9CI) (CA INDEX NAME)

6 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

DOCUMENT NUMBER: TITLE: 138:385446

138:385446
Preparation of 9-deazaguanine derivatives as inhibitors of GSK-3 and ROCK kinase
Cao, Jingrong: Choquette, Debbie: Davies, Robert; Forster, Cornelia: Lauffer, David: Pierce, Albert; Tomlinson, Ronald; Wannamaker, Marion; Metz, Natalie USA INVENTOR(S):

Tomlinson, Ronald: Wannamaker. USA U.S. Pat. Appl. Publ∴, 38 pp. CODEN: USXXCO Patent English 2 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2003096813 A1 20030522 US 2002-125885 20020419 <-PRIORITY APPLN. INFO.: US 2001-285217P P 20010420 <-OTHER SOURCE(5):
MARPAT 138:385446 US 2001-285217P P 20010420 <-OTHER SOURCE(5):
RI: PAC (Pharmacological activity): RCT (Reactant): SPN (Synthetic
preparation): TRU (Therapeutic use): BIOL (Biological study): PREP
(Preparation): RACT (Reactant or reagent): USES (Uses)
(drug candidate: preparation of 9-deazaguanine derivs. as inhibitors of
GSK-3 and ROCK kinase)
R) 383161-28-2 CAPLUS
CN 1H-Fyrrolo[3,2-d]pytimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5phenyl- (9CI) (CA INDEX NAME)

CAPLUS 4/397-15-2 CARBUS Carbamic acid, [2-{7-cyano-5-ethyl-4,5-dihydro-4-oxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

473997-36-3 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-ethyl-4,5-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)

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L16 ANSWER 6 OF 60 -CAPLUS -COPYRIGHT 2007 ACS on STN (Continued)

S87870-17-5 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-butanamide, 7-cyano-N-(1-ethylpropyl)-1,4dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

GT

The title pyrrolopyrimidine derivs. with general formula of I [wherein X = O or S: Al = a single bond or aliphatic hydrocarbyl: A2 = a single bond, CO, CO2, O, COC, S, SO, SO2, (un) substituted CONH, CSNH, C=NH, NH, NHCO, NHSO2, NHCONH, NHCS, NHCSNH, or SOZNH: Gl = a single bond or (un) substituted (heterol cyclohydrocarbyl: A3 = a single bond or aliphatic hydrocarbyl: A4 = a single bond or aliphatic hydrocarbyl: A4 = a single bond or NHCONH, CSNH, C=NH, NH, NHCO, NHSO2, NHCO2, NHCONH, NHCS, (un) substituted CONH, CSNH, C=NH, NH, NHCO, NHSO2, NHCO2, NHCONH, NHCS, NHCSNH, or SOZNH: G2 = H, or (un) substituted (heterol (cyclohydrocarbyl, etc.: A5 = a single bond or (un) substituted NH: R2 = H, F, Cl, Br, I, or (un) substituted (heterol (cyclohydrocarbyl, etc.) and pharmaceutically acceptable salts thereof are prepared as glycogen synthetase kinase 3 (GSK-3) inhibitors. For example, the compound II was prepared in a i=step

instep
synthesis in good yield. Some of compds. I showed 1CSO of <10 nH against
GSK-3. In are useful as remedies or preventives for diseases in which
GSK-3 participates such as diabetes, diabetic complications, Alzheimer's
disease, neurodegenerative disease, depression, mania, traumatic brain
injury, hair loss, inflammatory diseases, cancer, immunodeficiency (no
data). Formulations containing I as an active ingredient were also
ribed.

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

473997-03-4P 473997-05-6P 473997-15-8P
473997-36-9P 473997-22-7P 473997-35-2P
473997-38-5P 473998-07-1P 473998-08-2P
473998-03-9P 473998-10-6P 473998-11-7P
473998-12-8P 473998-13-9P 473998-14-0P
473998-15-1P 473998-16-2P 473998-17-3P
473998-12-1P 473998-19-5P 473998-20-8P
473998-21-9P 473998-22-0P 473998-23-1P
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) ΙT

(Uses)
(drug candidate; preparation of 9-deazaguanine derivs. as inhibitors of GSK-3 and ROCK kinase)
473997-03-4 CAPLUS
HI-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

473997-0S-6 CAPLUS HE-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5,6-diethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

473997-15-8 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-diphenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

S Ph N Ph

RN 473997-16-9 CAPLUS
CN IH-Pyrroloi3.2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis(2-methylpropyl)-4-oxo- (9CI) (CA INDEX NAME)

H N Bu-

RN 473997-22-7 CAPLUS
CN Carbamic acid, [2-(7-cyano-5-ethyl-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

 $\bigcap_{E}^{CN} \bigcap_{CH_2-CH_2-NH-C-O-CH_2-Ph}^{O} \bigcap_{H_2-CH_2-NH-C-O-CH_2-Ph}^{O} \bigcap_{H_2-CH_2-NH-$ 

RN 473997-35-2 CAPLUS
CN IH-Pyrclo[3,2-d]pyrimidine-7-carbonitrile, 6-{2-aminoethyl}-5-ethyl-4,5-dihydro-4-oxo-(9C1) (CA INDEX NAME)

 $\bigcap_{N} \bigcap_{\text{Et}}^{\text{CN}} C\text{H}_2 - C\text{H}_2 - \text{NH}_2$ 

RN 473997-38-5 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-ethyl-4,5-dihydro-6-phenyl-4-

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis(2-methylpropyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 473998-11-7 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methylpropyl)4-thioxo-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

CN CF3

RN 473998-12-8 CAPLUS .
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(phenylmethyl)-4-thioxo-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

CH2-Ph

RN 473998-13-9 CAPLUS
CN 1H-Pycrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-(4-morpholinyl)ethyl]-4-thioxo-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 473998-14-0 CAPLUS
CN HH-Pyrcolol,2-d)pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-4-oxo(9C1) (CA INDEX NAME)

Page 108

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) thioxo- (9CI) (CA INDEX NAME)

RN 473998-07-1 CAPLUS CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

RN 473998-08-2 CAPLUS
CN HH-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-phenyl-4-thiox-(9CI) (CA INDEX NAME)

RN 473998-09-3 CAPLUS
CN IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-[2-(4-morpholiny)]ethyl)-4-thioxo- (9CI) (CA INDEX NAME)

RN 473998-10-6 CAPLUS

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 47398-15-1 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-(2-phenylethyl)-4-thioxo- (9C1) (CA INDEX NAME)

RN 47398-16-2 CAPLUS
CN H-Pyrroloj,2-djpyrimidine-7-carbonitrile, 5-acetyl-6-ethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 473998-17-3 CAPLUS
CN SH-Pyrrolo[3,2-d]pyrimidine-5-carboxamide, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo-(9CI). (CA INDEX NAME)

RN 473998-18-4 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine-5-acetamide, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo- [9CI) (CA INDEX NAME)

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

473998-19-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5(methylsulfonyl)-4-thioxo- (9CI) (CA INDEX NAME)

473998-20-8 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-methanesulfonamide, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

473998-21-9 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-5-carboxylic acid, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo-, ethyl ester (9C1) (CA INDEX NAME)

L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

473997-13-6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5,6-diphenyl-(9CI) (CA INDEX NAME)

(Continued)

$$\mathbb{R}^2 \bigvee_{Y}^{\mathbb{R}^3} \mathbb{N} \bigvee_{\mathbb{N}^{H}} \mathbb{R}^4$$

The present invention provides 9-deazaguanine derivs. I  $\{X=0, S, Y=S, 0, NRI; RI=H, aliphatic, carbowy, acyl, etc.; R2=H, aliphatic, alkowy, thioalkowy, etc: R3=H, aliphatic, CN, halo, No, etc.; R4=H, aliphatic, amino, amino, amino, etc.], e.g., 4-thioxo-3,4,5,6,7,8-hexahydro-1,3,4 btriazafluorene-9-carbonitrile. These compds. are inhibitors of protein kinase, particularly inhibitors of GSK-3 mammalian protein kinase. The invention also provides pharmaceutical compns. comprising the inhibitors of the invention and methods of using those compns. in the treatment and prevention of various disorders, such as diabetes and Alzheimer's disease. ICSO and KI detns. for inhibition of GSK-3 showed that many I have values below one µM and ICSO detns. for ROCX inhibition showed that certain I inhibit ROCK kinase. Although the methods of preparation are not claimed,$ 

39 example prepns. of I are included. L16 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473998-22-0 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-cyclopropyl-6-ethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

473998-23-1 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis(1-methylethyl)-4-thioxo- (9CI) (CA INDEX NAME)

473997-08-9P 473997-13-6P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation of 9-deazaguanine derivs. as inhibitors of GSK-3 and ROCK ΙT

kinase) 473997-08-9 CAPLUS HR-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5,6-diethyl-4,5-dihydro-4-oxo-(9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2002:832804 CAPLUS DOCUMENT NUMBER: 137:337910 Preparation of 6 C.

137:337910
Preparation of 9-deazaquaninė derivatives as inhibitors of GSK-3 and ROCK kinase
Cao, Jingrong: Choquette, Debbie: Davies, Robert: Forster, Cornelia: Lauffer, David: Pierce, Albert: Tomlinson, Ronald: Wannamaker, Marion: Metz, Natalie Vertex Pharmaceuticals Incorporated, USA PCT Int. Appl., 106 pp.
CODEN: PINXD2
Patent INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English 2

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.								APPI	LICAT	ION	DATE							
	wo	2002	20859	09		A1 20021031			WO 2002-US12395						20020419 <				
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			co.	CR.	CU.	CZ.	DE.	DK.	DM.	DZ.	EC.	EE,	ES.	FI.	GB.	GD.	GE.	GH.	
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	ΑU	200	23052	05		A1		2002	1105		AU 2	2002-	3052	05		2	0020	419	<
	ÇA	244	4598			A1		2003	1031		CA 2	2002-	2444	598		2	0020	419	<
	EP	1383	3771			A1		2004	0128		EP 2	2002-	7340	12		2	0020	419	<
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											WO 2	2002-	US 12	395		W 2	0020	419	<
THE	R S	OURC	E(S):			MAR	PAT	137:	3379	10									

R SOUNCE(S): MARRAT 137:337910
383161-28-2P 473997-19-2P 473997-36-3P
RL: PAC (Pharmacological activity): RCT (Reactant): SPN (Synthetic preparation): RTW (Therapeutic use): BIOL (Biological study): PREP (Preparation): RACT (Reactant or reagent): USES (Uses) (drug candidate: preparation of 9-deazaguanine derivs. as inhibitors of GSK-3 and ROCK kinase)
383161-28-2 CAPLUS
1H-Pyrrolo(3), 2-d) pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-phenyl- (9CI) (CA INDEX NAME)

ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 473997-19-2 CAPLUS Carbamic acid, {2-{7-cyano-5-ethyl-4,5-dihydro-4-oxo-1H-pyrrolo[3,2-d]pyrimidin-6-yl)ethyl}-, phenylmethyl ester (9CI) (CA INDEX NAME)

473997-36-3 CAPLUS
IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-ethyl-4,5-dihydro-4-oxo-6phenyl- (9CI) (CA INDEX NAME)

473997-03-4P 473997-05-6P 473997-15-8P
473997-16-9P 473997-22-7P 473997-35-2P
473997-38-5P 473998-07-1P 473998-08-2P
473998-09-3P 473998-10-6P 473998-11-7P
473998-12-8P 473998-13-9P 473998-11-7P
473998-15-1P 473998-16-2P 473998-17-3P
473998-18-4P 473998-19-5P 473998-23-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(drug candidate; preparation of 9-deazaquanine derivs. as inhibite

(Uses)
(drug candidate: preparation of 9-deazaguanine derivs, as inhibitors of GSK-3 and ROCK kinase)
4397-03-4 Carbus
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-5-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473997-35-2 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-(2-aminoethyl)-5-ethyl-4,5-dlydro-4-oxo- (9C1) (CA INDEX NAME)

473997-38-5 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-ethyl-4,5-dihydro-6-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

473998-07-1 CAPLUS |HP-Pyrrolo[3,2-d]pycimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-4-thioxo-(9C1) (CA INDEX NAME)

473998-08-2 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-phenyl-4-thioxo- (9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS OR STN (Continued)

473997-05-6 CAPLUS IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5,6-diethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

473997-15-8 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-cárbonitríle, 4,5-dihydro-5,6-diphenyl-4-thíoxo- (9CI) (CA INDEX NAME)

473997-16-9 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis(2-methylpropyl)-4-oxo- (9CI) (CA INDEX NAME)

473997-22-7 CAPLUS Carbamic acid. [2-(7-cyano-5-ethyl-4,5-dihydro-4-thioxo-1H-pyrrolo[3,2-d]pyriadin-6-y)lethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473998-09-3 CAPLUS
IH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-{2-(4-morpholinyl)ethyl]-4-thioxo- [9CI] (CA INDEX NAME)

473998-10-6 CAPLUS . HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis(2-methylpropyl)-4-thioxo- (9CI) (CA INDEX NAME)

473998-11-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(2-methylpropyl)-4-thioxo-6-(trifluoromethyl)- [9CI] (CA INDEX NAME)

473998-12-8 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-(phenylmethyl)-4-thioxo-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473998-13-9 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5-[2-(4-morpholiny]tethyl]-4-thioxo-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

473998-14-0 CAPLUS |H-Pyrrolo[3.2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-4-охо-(9CI). (CA INDEX NAME)

473998-15-1 CAPLUS HH-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5-(2-phenylethyl)-4-thioxo- (9CI) (CA INDEX NAME)

473998-16-2 CAPLUS |H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 5-acetyl-6-ethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

1.16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473998-20-8 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-methanesulfonamide, 7-cyano-6-ethyl-1,4-dlhydro-4-thioxo- (9CI) (CA INDEX NAME)

473998-21-9 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-carboxylic acid, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

473998-22-0 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 5-cyclopropyl-6-ethyl-4,5-dihydro-4-thioxo- (9CI) (CA INDEX NAME)

RN 473998-23-1 CAPLUS

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L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

473998-17-3 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-5-carboxamide, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo- (9C1) (CA INDEX NAME)

473998-18-4 CAPLUS SH-Pyrcolo[3,2-d]pyrimidine-5-acetamide, 7-cyano-6-ethyl-1,4-dihydro-4-thioxo-(9CI) (CA INDEX NAME)

473998-19-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 6-ethyl-4,5-dihydro-5(methylsulfonyl)-4-thioxo- (9CI) (CA INDEX NAME)

ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN · (Continued) 1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-5,6-bis{1-methylethyl}-4-thioxo- {9Cl} (CA INDEX NAME)

473997-08-9P 473997-13-6P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation of 9-deazaguanine derivs. as inhibitors of GSK-3 and ROCK kinase) 473997-08-9 CAPLUS H

473997-13-6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-4-oxo-5,6-diphenyl-(9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

The present invention provides 9-deazaguanine derivs. (shown as I) e.g. 4-thioxo-3, 4, 5, 6, 7, 8-hexahydro-1, 3, 4b-triazafluorene-9-carbonitrile) or a pharmaceutically acceptable derivative thereof, wherein X is 0 or 5; Y is

O- or -NR1-; and R2, R3, and R4 are as described in the specification. These compds. are inhibitors of protein kinase, particularly inhibitors of GSK-3 mammalian protein kinase. The invention also provides pharmaceutical compns. comprising the inhibitors of the invention and methods of using those compns. in the treatment and prevention of various disorders, such as diabetes and Althelmer's disease. ICSO and Ki detns. for inhibition of GSK-3 showed that many I have values below one µM and ICSO detns. for ROCK inhibition showed that certain I inhibit ROCK kinase. Although the methods of preparation are not claimed, 39 example prepns. of I are included.

are included. REFERENCE COUNT: THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L16 ANSWER 9 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

DOCUMENT NUMBER: TITLE:

AUTHOR (S):

LUS COPYRIGHT 2007 ACS on STN
2001:436287 CAPLUS
135:242200
TOCP-Ziegler cyclization in the synthesis of
3-amino-4-cyanopyrrole derivatives
Ryndina, S. A.; Kadushkin, A. V.; Solov'eva, N. P.;
Granik, V. G.
Research Institute for Intermediates and Dyestuffs,
State Scientific Center of the Russian Federation,
Moscow, 103787, Russia
Chemistry of Heterocyclic Compounds (New York, NY,
United States) (Translation of Khimiya
Geterotsiklichesikh Soedinenii) (2000),
16(12), 1409-1420,
CODEN: CHCCAL; ISSN: 0009-3122
Consultants Bureau
Journal
English
CASRRACT 135:242200 CORPORATE SOURCE:

SOURCE:

CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(s): CASREACT 135:242200

IT 302802-20-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Torp-Ziegler cyclization of β-enamino nitriles with alkyl halides
to aminocyanopyrroles)

RN 302802-20-6 CAPLUS

CN 3H-Pyrcolo[3,2-d]pyrimidine-7-carbonitrile, 4,5-dihydro-6-methyl-4-oxo-5-phenyl-3-(phenylmethyl) - (9CI) (CA INDEX NAME)

GΙ

AUTHOR(S):

AB Polyfunctional derivs of 3-aminopyrrole, I (R = Me, PhCh2, Ph, 4-BrC6H4, 4-ClC6H4, Rl = PhCh, MeO2C, 4-BrC6H4CO, EtO2C), have been synthesized from several substituted B-enamin o nirciles (NC)2CCIGNHRH using Torp-Ziegler cyclization with alkyl halides. These compds are starting materials for further conversions, particularly for the synthesis of pyrrolo[3,2-d] - and pyrrolo[3,4-d]pyrimidines.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 9 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) L16 ANSWER 10 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2001:279860 CAPLUS DOCUMENT NUMBER: 135:62958

TITLE:

135:02938
The Chemical Development of CI-972 and CI-1000: A Continuous Nitration, A MgCIZ/Et3N-Mediated C-Alkylation of a Chloronitropyrimidine, A Catalytic Protodediazotization of a Diazonium Salt, and an Air

Protodediazotization of a Diazonium Salt, and an Air Oxidation of an Amine
De Jong, Randall L.: Davidson, James G.: Dozeman, Gary
J.: Fiore, Philip J.; Giri, Punam: Kelly, Margaret E.:
Puls, Timothy P.: Seamans, Ronald E.
Pfizer Global Research and Development Holland
Laboratories, Holland, MI, 49424, USA
Organic Process Research & Development (2001), 5(3), 216-225
CODEN: OPRDFX: ISSN: 1083-6160

**Morican Chemical Society**

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

American Chemical Society DOCUMENT TYPE:

LANGUAGE: English

115787-68-3P. CI-972

115787-68-3P, CI-972
RL: IMF (Industrial manufacture): PREP (Preparation)
(chemical development of CI-972 and CI-1000 (PNP inhibitors): continuous
nitration and subsequent MgCI2/EE3N-mediated C-alkylation of
chloronitropyrimidine, catalytic protodediazotization of diazonium
salt, and air oxidation of amine)
115787-68-3 CAPLUS
4H-Pyrcolo(3, 2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

• HCl

163217-79-6P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT

RL: IMF [Industrial manufacture]: RCT (Reactant): PREP (Preparation): RACT (Reactant or reagent) (chemical development of CI-972 and CI-1000 (PNP inhibitors): continuous nitration and subsequent MgCl2/Et3N-mediated C-alkylation of chloronitropyrimidine, catalytic protodediazotization of diazonium salt, and air oxidation of amine) 163217-79-6 CAPLUS HI-Pyrtcl0[3,2-d]pyrimidine-6-diazonium, 2-amino-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-, chloride (9CI) · (CA INDEX NAME)

L16 ANSWER 10 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

• c1-

Efficient, large-scale processes were developed for the preparation of the potent PNP inhibitors: 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)-4Hpotent few initiations: 2-ordination-3-ordination-3-ordination-3-ordination-3-ordination-3-ordination-3-ordination-4-one hydrochloride monohydrate and 2-amino-3,5-dihydro-7-(3-thienylmeth-yl)-4H-pyrrolo[3,2-d]pyrimidin-4-one hydrochloride monohydrate [1]. We report [1] a safe, continuous nitration process for the preparation of 2-amino-6-chloro-5-nitro-4-pyrimidinol and

stable diisopropylamine salt, (2) the first MgCl2/Et3N-mediated
C-alkylation of a chloronitropyrimidine, (3) a rare catalytic
protodediazotization of 2-amino-4-oxo-7-thiophen-3-ylmethyl-4,5-dihydro-3Hpyrrolo[3,2-d]pyrimidine-6-diazonium chloride, (4) a single-step process
to prepare I directly from 2-amino-6-hydroxy-5-nitro-a-(3thienylmethyl)-4-pyrimidineacetonitrile using a sponge nickel-catalyzed
reduction, and (5) a method to convert the over-reduction byproduct:
2,5-diamino-6-(1-aminomethyl-2-thiophen-3-yl-ethyl)-pyrimidin-4-ol into I
using air oxidation
REFERENCE COUNT:
32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 11 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

AB Values of inhibition consts., Ki, and conces. required for 50% inhibition, IC50, for a collection of structurally diverse competitive inhibitors of calf spleen purine nucleoside phosphorylase have been determined employing inosine as substrate. These values have been employed to create predictive quant. structure-activity relationships (GSAR) which link structure to values of Ki and IC50. These GSAR models have substantial power to predict values and the associated uncertainties for Ki and IC50 for unknown, structurally diverse inhibitors of purine nucleoside phosphorylase.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS REFORM ALL CITATIONS AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE.

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN SSION NUMBER: 2001:48250 CAPLUS MENT NUMBER: 134:246867

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: 134:246867
Structure-activity relationships for a collection of structureally diverse inhibitors of purine nucleoside phosphorylase
Andricopulo, Adriano D.: Yunes, Rosendo A.
College of Pharmacy, University of Michigan, Ann Arbor, MI, 48109, USA
Chemical & Pharmaceutical Bulletin (2001), 49(1), 10-17
CODEN: CPBTAL: ISSN: 0009-2363
Pharmaceutical Society of Japan
Journal
English

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 115812-51-6 139367-73-0 192653-69-3

RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES

(Uses)

(Uses)
(SAR of structurally diverse inhibitors of purine nucleoside

phosphorylase)
115812-51-6 Cappy
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(2-thienylmethyl)- (9CI) (CA INDEX NAME)

139367-73-0 CAPLUS
4H-Pyrrolo(3,2-d)pyrimidin-4-one, 2,6-diamino-7-(cyclohexylmethyl)-1,5-dihydro-(9CI) (CA INDEX NAME) RN CN

192653-69-3 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one. 2-amino-1,5-dihydro-6-methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 12 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:798997 CAPLUS

DOCUMENT NUMBER: 134:115913

134:115913
New syntheses of 2-alkylthio-4-oxo-3,4dihydroquinazolines, 2-alkylthioquinazolines, as well
as their hetero analogues
Gruner, Margit: Rehwald, Matthias: Eckert, Katrin:
Gewald, Karl
Institut of Organic Chemistry, Technical University
Dresden, Dresden, D-01062. Germany
Heterocycles (2000), 53(11), 2563-2377
CODEN: HTCYAM: ISSN: 0385-5414
Japan Institute of Heterocyclic Chemistry
Journal
English AUTHOR(S):

CORPORATE SOURCE: .

SOURCE:

PUBLI SHER: DOCUMENT TYPE:

LANGUAGE: English CASREACT 134:115913

OTHER SOURCE(S):

R SOURCE(5): CASRACT 134:119913
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of Z-alkylthio-4-oxo-3,4-dihydroquinazolines,
2-alkylthioquinazolines, and their hetero analogs)
321434-40-6 CAPLUS

-alkylthloquinazolines, and their netero analogs)
32:1434-40-6 CAPLUS
Acetic acid, [[7-cyano-4,5-dihydro-6-(methylthio)-4-oxo-1H-pyrrolo[3,2-d]pyrimdin-2-yl]thio]-, ethyl ester (9CI) (CA INDEX NAME)

AB N-Chloroacetylanthranilic acid Et ester reacts with potassium thiocyanate in the presence of alc. to give the (4-oxo-3,4-dihydroquinazolin-2-ylsulfanyl)acetic acid ester. In the presence of water or amines the free acetic acid derivative or the acetamide derivs. are obtained.

2-Amino-4-oxo-3,4-dihydroquinazolines arise if vigorous reaction conditions are employed. Analogously, N-chloroacetyl derivs. of 5-membered heterocycles with enaminocarbonyl structure react with potassium thiocyanate to yield thieno[2,3-d]-, thieno[3,2-d]-, imidazo[4,5-d]-, pyrrolo[3,2-d]-, and thiazolo[4,5-d]pyrimidines.

Quinazolines are formed by the reaction of 2-chloroacetylaminoacetophenone and 2-chloroacetylaminobenzophenone with potassium thiocyanate and subsequent treatment of the intermediates with aminess.

REFERENCE COUNT: 16 THERE ARE 16 CITEO REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 13 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:358538 CAPLUS
1999:358538 CAPLUS
131:153425
Structure-Activity Relationships for a Class of Inhibitors of Purine Nucleoside Phosphorylade
AUTHOR(S): Fracer, Masterson, Lori: Andricopulo, Adriano D: Cheng, Jiammings Riley, Brad: Hakimi, Ryan: Frazer, Jack W.: Cordes, Eugene H.
CORPORATE SOURCE: College of Pharmacy and Department of Chemistry, University of Michigan, Ann Arbor. MI, 48109, USA Journal of Medicinal Chemistry (1999), 42(13), 2422-2431 (0022-263 American Chemical Society

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: JAGE: English 139367-73-0 192653-69-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(discovery of purine nucleoside phosphorylase inhibitors using QSAR) 19367-73-0 CAPLUS 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(cyclohexylmethyl)-1.5-dihydro-(9CI) (CA INDEX NAME)

192653-69-3 CAPLUS 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2-amino-1,5-dihydro-6-methyl-7-(phenylmethyl)- (9C1) (CA INDEX NAME)

Values of inhibition consts., Ki, for a family of structurally related, competitive inhibitors of calf spleen purine nucleoside phosphorylase (PMP) have been determined employing both inosine as substrate and a manual assay and 2-amino-6-mercapto-7-methylpurine ribonucleoside (MESG) as substrate and a robot-based enzyme kinetics facility. Several of the values determined robotically were confirmed employing the same substrate

manual assay. Surprisingly, for many of the inhibitors examined, values of

L16 ANSWER 14 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1998:282933 CAPLUS DOCUMENT NUMBER: 128:321614

DOCUMENT NUMBER:

128:321614
Studies on Pyrimidine-Annelated Heterocycles:
Synthesis of Pyrcrolo[3,2-d]pyrimidines by Amine Oxide
Rearrangement
Majumdar, K. C.: Das, U.: Jana, N. K.
Department of Chemistry, University of Kalyani,
Kalyani, 741235, India
Journal of Organic Chemistry (1998), 63(11),
3550-3553
CODEN: JOCKAH: ISSN: 0022-3763

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

CODEN: JOCEAH: ISSN: 0022-3263 American Chemical Society Journal

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

MENT TYPE: Journal
UNGE: English
R SOURCE(S): CASREACT 128:321614
207112-27-4P 207112-28-5P 207112-29-6P
207112-30-9P 207112-31-0P 207112-32-1P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
(Reactant or reagent): (preparation of pyrcolo[3,2-d]pyrimidines by amine oxide rearrangement): 207112-27-4 CAPLUS
Benzoic acid, 3-chloro-, [6-(2-chlorophenoxy)methyl]-5-ethyl-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dixxo-1H-pyrrolo[3,2-d]pyrimidin-7-yl]methyl
ester (9CI) (CA INDEX NAME)

207112-28-5 CAPLUS
Benzoic acid, 3-chloro-, [6-[(4-chlorophenoxy)methyl]-5-ethyl-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-lH-pyrcolo[3,2-d]pyrimidin-7-yl]methylester (9C1) (CA INDEX NAME)

207112-29-6 CAPLUS Benzoic acid, 3-chloro-, [5-ethyl-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-

Page 114

L16 ANSWER 13 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Ki detd. with MESG as substrate are smaller than those obtained employing inosine as substrate by a factor that varies from less than 2 to 10.

Values of concar, required for SON inhibition of PNP, ICSO, have also been detd. For the same family of inhibitors employing inosine as substrate.

Values of ICSO into and those for Kiino and Kimesg for subsets of the inhibitors have been employed as training sets to create quant structure-activity relationships (OSAR) which have substantial power to predict values of ICSO and Ki for inhibitors outside the training set. These QSAR models should be useful in guiding future medicinal chem efforts designed to discover inhibitors of PNP having increased potency.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 14 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dioxo-6-(phenoxymethyl)-lH-pyrrolo[3,2-d]pyrimidin-7-yl]methyl ester (9CI) (CA INDEX NAME) L16

$$\begin{array}{c|c} \text{Me} & \text{O} & \text{Et} \\ \hline \text{O} & \text{II} & \text{CH}_2 - \text{OPh} \\ \hline \text{O} & \text{CH}_2 - \text{O} - \text{C} \\ \hline \end{array} \right.$$

207112-30-9 CAPLUS Benzoic acid, 3-chloro-, [5-ethyl-2,3,4,5-tetrahydro-6-[(4-methoxyphenoxy)methyl]-1,3-dimethyl-2,4-dioxo-lH-pyrrolo[3,2-d]pyrimidin-7-yl]methyl ester (9CI) (CA INDEX NAME)

207112-31-0 CAPLUS
Benzoic acid, 3-chloro-, [5-ethyl-2,3,4,5-tetrahydro-1,3-dimethyl-6-[(4-methyl-henoxy)methyl]-2,4-dioxo-1H-pyrcolo[3,2-d]pyrimidin-7-yl]methyl
ester (9CI) (CA INDEX NAME)

207112-32-1 CAPLUS
Benzoic acid, 3-chloro-, {5-ethyl-2.3,4,5-tetrahydro-1,3-dimethyl-6-[{2-methylphenoxy} methyl]-2,4-dioxo-lH-pyrrolo[3,2-d]pyrimidin-7-yl]methyl
ester (9CI) (CA INDEX NAME)

L16 ANSWER 14 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

207112-33-2P 207112-34-3P 207112-35-4P 207112-36-FP RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of pyrrolo[3,2-d]pyrimidines by amine oxide rearrangement) 207112-33-2 CAPLUS Ht-Pyrrolo[3,2-d]pyrimidine-2,4 (3H,5H)-dione, 6-{ (2-chlorophenoxy) methyl]-5-ethyl-7-(methoxymethyl)-1,3-dimethyl- (9CI) (CA INDEX NAME)

207112-34-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-2,4(3H,5H)-dione, 6-[(4-chlorophenoxy)methyl]-5-ethyl-7-(methoxymethyl)-1,3-dimethyl- (9CI) (CA INDEX NAME)

207112-35-4 CAPLUS IM-Eyrolo(3,2-d|pyrimidine-2,4(3H,5H)-dione, 5-ethyl-7-(methoxymethyl)-1,3-dimethyl-6-(phenoxymethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 14 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

AB A number of pyrrolo[3,2-d]pyrimidine derivs. were synthesized in 90-95% yields from the corresponding 5-(N-[4-(aryloxy)but-2-ynyl]-N-echylamino]-1,3-dimethyluracils by simple treatment with 1 equiv of m-chloroperoxybenzoic acid in dichloromethane at 0-5 °C for 12-15 h. The resulting m-chlorobenzoates were easily converted to methoxy. derivs. in 92-94% yields when refluxed in methanol for 20-22 h. REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 14 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

207112-36-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-2,4(3H,5H)-dione, 5-ethyl-7-{methoxymethyl}-6[(4-methoxyphenoxy)methyl]-1,3-dimethyl- (9CI) (CA INDEX NAME)

207112-37-6 CAPLUS
IH-Pyrcolo(3,2-d)pyrimidine-2,4(3H,5H)-dione, 5-ethyl-7-(methoxymethyl)1,3-dimethyl-6-[(4-methylphenoxy)methyl)- (9CI) (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

207112-38-7 CAPLUS
1H-Pyrrol(3,2-d)pyrimidine-2,4(3H,5H)-dione,5-ethyl-7-(methoxymethyl)-1,3-dimethyl-6-[(2-methylphenoxy)methyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 15 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1998:193124 CAPLUS DOCUMENT NUMBER: 128:230342

DOCUMENT NUMBER:

AUTHOR (S):

CORPORATE SOURCE:

128:230342
Preparation of 6-amino-2,4-dimethoxy-7,7-dibenzyl-7H-pyrrolo[3,2-d]pyrimidine and its reactions
Otmar, Micoslav: Masojidkova, Milena: Budesinsky,
Milos: Holy, Antonin
Institute Organic Chem. and Biochem., Academy Sciences
Czech Republic, Prague, 166 10, Czech.
Conference of Organic Chemists on Advances in Organic
Chemistry, 22nd, Casta-Papiernicka, Slovakia, June
11-13, 1997 (1997), 109-110. Editor(s):
Fisera, Lubor: Krutosikova, Alzbeta: Benckova, Maria.
Vydavatelstvo STU: Bratislava, Slovakia.
Conference
English SOURCE:

DOCUMENT TYPE: English

UAGE: English
204714-48-7P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
(Reactant or reagent)
(preparation and reactions of aminodimethoxydibenzylpytrolopytimidine)
204714-48-7 CAPLUS
7H-Pytrolo[3, 2-d]pytimidin-6-amine, 2,4-dimethoxy-7,7-bis(phenylmethyl)(9CI) (CA INDEX NAME)

AB A conference REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 16 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1998:168857 CAPLUS
Catalytic hydrogenation causes C-benzyl bond cleavage
in 6-amino-7.7-dibenzyl-2,4-dimethoxy-7H-pyrrolo[3,2-d]
dpyrimidine: an example indicating novel route to
6-amino-7-benzyl-5H-pyrrolo[3,2-d]
pyrimidines and
related compounds
Otmar, Micoslav: Masojidkova, Milena: Budesinsky,
Milos: Holy, Antonin
Institute of Organic Chemistry and Biochemistry,
Academy of Sciences of the Czech Republic, Prague, 166
10, Czech Rep.
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
CASREACT 128:244008
OTHER SOURCE(S):
CASREACT 128:244008
TI 204714-48-7P 204860-55-9P 204860-67-1P
204860-59-3P 204860-61-7P 204860-67-1P
204860-59-3P 204860-61-7P 204860-67-1P
(Reactant or reagent)
(hydrogenolysis of a C-benzyl group in preparation of

RE: NCT (Reactant); SPN (synthetic preparation); FROE (Flephiation); ANC. (Reactant or reagent) check of a C-benzyl group in preparation of pyrcolopyrimidinamines) 204714-48-7 CAPUS; PH-Pyrcolo[3,2-d]pyrimidin-6-amine, 2,4-dimethoxy-7,7-bis(phenylmethyl)-(9CI) (CA INDEX NAME)

204860-55-9 CAPLUS Acetamide, N-[2,4-dimethoxy-7,7-bis(phenylmethyl)-7H-pyrrolo[3,2-d]pyrimidin-6-yl]- (9CI) (CA INDEX NAME)

204860-57-1 CAPLUS
5H-Pyrcolo[3,2-d]pyrimidin-6-amine, 2,4-dimethoxy-7-(phenylmethyl)- (9CI)
(CA INDEX NAME) .

ANSWER 16 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 204860-64-0 CAPLUS 6H-Pyrrolo[3,2-d]pyrimidin-6-one, 5,7-dihydro-7-hydroxy-2,4-dimethoxy-7-(phenylmethyl)- (9C1) (CA INDEX NAME)

AB Benzylpyrrolo[3,2-d]pyrimidines I and II were prepared by reductive cyclization of the corresponding 6-(1-cyanoalkyl)-5-nitropyrimidines. Catalytic hydrogenation of II causes a C-C bond cleavage between carbon C-7 and one of the geminal benzyl groups, which yields 6-amino-7-benzyl-2,4-dimethoxy-5H-pyrrolo[3,2-d]pyrimidine which spontaneously oxidized in air to benzylpyrrolo[3,2-d]pyrimidine III. REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 16 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN CN

204860-59-3 CAPLUS 7H-Pyrrolo[3,2-d]pyrimidin-7-ol, 6-amino-2,4-dimethoxy-7-(phenylmethyl)-(9CI) (CA INDEX NAME)

204860-61-7 CAPLUS
Acetamide, N-[2,4-dimethoxy-7-(phenylmethyl)-5H-pyccolo[3,2-d]pyrimidin-6-yl]- (9CI) (CA INDEX NAME)

 $\label{eq:continuous} 204860-62-8 \quad CAPLUS \\ Acetamide, N-[-r-(acetyloxy)-2.4-dimethoxy-7-(phenylmethyl)-7H-pycrolo[3.2-d)pycindin-6-yl]- (9CI) \quad (CA INDEX NAME) \\ \\$ 

204860-64-0P RL: SPN (Synthetic preparation); PREP (Preparation) (hydrogenolysis of a C-benzyl group in preparation of pyrrolopyrimidinamines)

L16 ANSWER 17 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:511733 CAPLUS
DOCUMENT NUMBER: 127:121751 Process for the preparation of 9-deazaguanine derivatives from enamines
INVENTOR(S): Elliott, Arthur J.; Walsh, David A.; Morris, Philip E.
BOURCE: PATENT ASSIGNEE(S): Biocryst Pharmaceuticals, Inc., USA; Elliott, Arthur J.; Walsh, David A.; Morris, Philip E.
PCT Int. Appl., 77 pp.
CODEN: PIXXD2
Patent

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.															
							WO 1996-US19556									
W:	AL. A	M. AT	, AU,	AZ.	BA.	BB.	BG.	BR.	BY.	CA.	CH.	CN.	CU.	CZ.	DE.	
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AU 97115																
. CN 12394	72		Α.	- 1	19991	222		mv 1	996-	1805	15		î	9961	212	
EP 97002																
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RL: SPN	(Synt	hotic	nran	arati	ion):	PRE	P (	Pron	arat	ioni						

RL: SPM (Synthetic preparation): PREP (Preparation) (process for the preparation of 9-deazaguanine derivs. from enamines) 192653-69-3 CAPLUS H-Pyrrolo[3,2-d]pyrimidin-4-one, 2-amino-1,5-dihydro-6-methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)

GΙ

L16 ANSWER 17 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

The title compds. [I: Q = H, alkyl, CF3, Ph; X = (un)substituted aryl, heterocyclic or alicyclic ring substituent; Y = H, alkyl, CONH2, COZH, etc.] are prepared by the reaction of a ketone or aldehyde QCOCH(CHZX)CN with a dialkylaminomalonate to produce an enamine which is cyclized with a base to produce a pyrrole (II: R2 = CI-4 alkyl), II is reacted with a urea R302CN:(C2)MHCOZB3 [R3 = CI-4 alkyl; Z = alkylthio, :S, SH, Cl, alkoxy; the N:C double bond is optional) to form a guanidino derivative(III) or II

the N:C double bond is optional; to form a quantitud derivative (ii) of it reacted with a carbamimidoic acid R10CON:C(R11)NHCOR10 [R10 = (un)substituted Ph: R11 = alkoxy) to form a protected guanidino derivative (IV): III or IV are then cyclized in the presence of CF3COZH or alkoxides or alkalis or alkaline earth metal hydroxides, Collowed by acid neutralization

to produce I. Thus, Me 3-amino-4-[2-cyano-1-(3-pyridy1)ethy1]-IH-pyrrole-2-carboxylate was reacted with N.N'-bis(carbomethoxy)-5-methylisothiourea and Et3N in MeCN, mercuric chloride added, the solvent evaporated, the residue extracted with MeOH, the extract reacted with NaOMe in MeOH, and the reaction

mixture neutralized with AcOH in H2O, producing 3-(3-pyridy1)-3-(2-amino-4-oxo-3H,5H-pyrrolo[3,2-d]pyrimidiny1) propanenitrile hemihydrate (m.p. 297-299* (decomposition)) in 27.5t yield.

Answer 18 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
7H-Pycrolo[3,2-d]pyrimidin-6-amine, 2,4-dimethoxy-7,7-dipropyl- (9CI) (CA INDEX NAME)

186261-23-4 CAPLUS 7H-Pyrrolo[3,2-d]pyrimidin-6-amine, 2,4-dimethoxy-7,7-di-2-propenyl- (9CI) (CA INDEX NAME)

MeO NH2 
$$CH_2-CH=CH_2$$
  $CH_2$ 

186261-32-5 CAPLUS Acetamide, N-(2, 4-dimethoxy-7,7-dipropyl-7H-pyrrolo[3,2-d]pyrimidin-6-yl)-(9C1) (CA INDEX NAME)

186261-33-6 CAPLUS Acetamide, N-acetyl-N-(2,4-dimethoxy-7,7-d]pycimidin-6-yl)- (9CI) (CA INDEX NAME) -7,7-dipropyl-7H-pyrrolo[3,2-

Reductive cyclization of 6-(1-cyanoalky1)-5-nitropyrimidines gave 7-alky1-5H-pycrolo[3,2-d]pyrimidines. The presence of two alky1 substituents at the cyanomethy1 group resulted in the formation of 6-amino-7,7-dialky1-7H-pycrolo[3,2-d]pyrimidines. By this method

Page 117

L16 ANSWER 18 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:8197 CAPLUS

DOCUMENT NUMBER: 126:117954

Reductive cyclization of 6-cyanomethyl-5nitropyrimidines - an efficient route to
7-alkyl-5H-pycrolo[3, 2-d]pyrimidines and
6-amino-7,7-dialkyl-7H-pycrolo[3, 2-d]pyrimidines.

Utilization in the synthesis of 9-deaza analogs of
OHPA

AUTHOR(S):

DHPA
Otmar, Miroslav: Masojidkova, Milena: Holy, Antonin
Inst. Organic Chemistry, Academy Sciences, Prague, 166
10, Czech Rep.
Tetrahedron (1997), 53(1), 391-400
CODEN: TETRAB: ISSN: 0040-4020
Elsevier

SOURCE:

PUBLISHER:

186261-30-3 CAPLUS Acetamide, N-acetyl-N-(2,4-dimethoxy-7,7-di-2-propenyl-7H-pyrrolo[3,2-d]pyrimidin-6-yl)- (9CI) (CA INDEX NAME)

183314-15-0P 186261-23-4P 186261-32-5P ΙT

180201-33-07
RE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of pyrrolopyrimidines via reductive cyclization of nitropyrimidineacetonitriles)
183314-15-0 CAPLUS

ANSWER 18 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
7-(2,3-dihydroxypropyl)-2,4-dimethoxy-5H-pycrolo[3,2-d]pyrimidine was
prepd. as an intermediate for the prepn. of 9-deaza analogs of DHPA [i.e.,
(S)-9-(2,3-dihydroxypropyl)adenine] and related compds.

ERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 19 OF 60
ACCESSION NUMBER:
DOCUMENT NUMBER:
1996:600856 CAPLUS
125:329282
Two synthetic approaches to 9-deaza analogs of 9-(2,3-dihydroxypropy)) adenine (DHPA)
Otnac, Micoslav; Masojidkova, Molena; Holy, Antonin
15titute Organic Chemistry Biochemistry, Academy
Sciences Czech Republic, Prague, 166-10, Czech Rep.
Collection of Czechoslovak Chemical Communications (1996), 61(Spec. Issue), 549-551
CODEN: CCCCAK; ISSN: 0010-0765
Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic
DOCUMENT TYPE:
LANGUAGE:
L

Academy of Sciences of the Czech Republic

DOCUMENT TYPE: Journal
LANGUAGE: English

IT 183314-15-0P

RL: SPN (Synthetic preparation): PREP (Preparation)

(two synthetic approaches to 9-deaza analogs of 9-(2,3dihydroxypropyl) adenine (DHPA))

RN 183314-15-0 CAPLUS

CN 7H-Pyrcolo[3,2-d]pyrimidin-6-amine, 2,4-dimethoxy-7,7-dipropyl- (9CI) (CA
INDEX NAME)

Two approaches to prepare 7-(2,3-dihydroxypropyl)-2,4-dimethoxy-5H-pyrrolo[3,2-d]pyrimidine are described. The first approach starts from 6-cyanomethyl-2,4-dimethoxy-5-nitropyrimidine which is substituted on its active methylene with 2,3-dihydroxypropyl group: the hydrogenation of this compound results in simultaneous reduction of the nitro group and condensed pyrrole ring-closure. The second approach to this DHPA analog consists in addition of alkaline salt of 2,4-dimethoxy-5H-pyrrolo[3,2-d]pyrimidine on [RS)-2,3-0-isopropylideneglyceraldehyde followed by reductive removal of the hydroxy group.

L16 ANSWER 20 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

182242-62-2 CAPLUS 4H-Pyrrolo[3,2-4]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

GΙ

An efficient synthesis of 9-deazaguanines I (Ar = Ph, 3-furanyl, 3-pyridinyl) by reductive cyclodeamination of 5-nitro-6-(cyanomethyl)pyrimidine derivs. II under acidic conditions is described.

L16 ANSWER 20 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1996:519891 CAPLUS DOCUMENT NUMBER: 125:275781 SYNTHESIA OF CAPPED ACT AND ACCESSION ACCESSION AND ACCESSION ACCESSION AND ACCESSION AND ACCESSION AND ACCESSION ACCESSIO

Synthesis of pyrrolo[3,2-d]pyrimidines
(9-deazaguanines) by reductive cyclodeamination

(9-deazaguanines) by reductive Cyclodeamination reactions Elliott, Arthur J.; Kotian, Pravin L.; Montgomery, John A.; Walsh, David A. BioCryst Pharm. Inc., Birmingham, AL, 35244, USA Tetrahedron Letters (1996), 37(33), 5829-5830 AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

MENT TYPE: Journal
LAGE: English,
115787-58-1P 115787-59-2P 182242-61-1P
182242-62-2P
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of deazguanines by reductive cyclodeamination of
nitro(cyanomethyl)pyrimidinones)
115787-58-1 CAPLUS
4H-Pyrcrol(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

182242-61-1 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(3-furanylmethyl)-1,5-dihydro- (961) (CA INDEX NAME)

L16 ANSWER 21 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1995:749220 CAPLUS DOCUMENT NUMBER: 123:217709

TITLE: Structure-based design of inhibitors of purine

nucleoside phosphorylase Babu, Y. Sudhakar: Ealick, Steven E.: Bugg, Charles E.: Erion, Mark D.: Guida, Wayen C.: Montgomery, John A.: Secrist, John A., III AUTHOR (S):

BioCryst Pharmaceuticals, Inc., Birmingham, AL, 35244, CORPORATE SOURCE:

USA Acta Crystallographica, Section D: Biological Crystallography (1995), D51(4), 529-35 CODEN: ABCREG: ISSN: 0907-4449 Munksgaard Journal SOURCE:

PUBLI SHER: DOCUMENT TYPE: LANGUAGE:

(Structure-answer design of imministrate of patrice independent phosphorylase) 115787-58-1 CARLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)-(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS 4H-Pyrcolo(1,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9C1) (CA INDEX NAME)

139367-73-0 CAPLUS
4H-Pycrolo[3,2-d]pycimidin-4-one, 2,6-diamino-7-(cyclohexylmethyl)-1,5-dihydro- (9CI) (CA INDEX NAME)

L16 ANSWER 21 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

Inhibitors of purine nucleoside phosphorylase may have therapeutic value in the treatment of T-cell proliferative diseases such as T-cell leukemia, in the suppression of host-vs.-graft response in organ transplants, and in the treatment of T-cell-mediated autoimmune diseases. Competitive inhibitors of this enzyme have been designed using the three-dimensional structure of the enzyme determined by x-ray crystallog. This approach has resulted in the synthesis of the most potent and membrane-permeable inhibitors of purine nucleoside phosphorylase reported so far.

L16 ANSWER 22 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• c1

163217-78-5, 2,6-Diamino-3,5-dihydro-7-(3-thienylmethyl)-4Hpyrrolo[3,2-d]pyrimidin-4-one, hydrochloride, monohydrate
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of
mino-3,5-dihydro-7-substituted-4H-pyrrolo[3,2-d]pyrimidin4-ones via regioselective diazotization/hydrogenation of 2,6-diamino
precursors)
163217-78-5 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3thienylmethyl)-, monohydrochloride, monohydrate (9CI) (CA INDEX NAME)

HC1

● н20

L16 ANSWER 22 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1995:403408 CAPLUS DOCUMENT NUMBER: 122:314562

Process for the synthesis of 2-amino-3,5-dihydro-7-TITLE: Process for the synthesis of Z-amino-1,5-dinydro-/substituted-4H-pyrcholo[3,2-d]pyrimidin-4-ones via
regioselective diazotization/hydrogenation of
2,6-diamino procursors
De Jong, Randall L.; Seamans, Ronald E.; Zeller, James
R.
Warner-Lambett Co., USA

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

warner-Lambert U.S., 6 pp. CODEN: UŞXXAM Patent English 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	rent	NO.			KIN	)	DATE			APP	LICA	TIC	ON 1	10.		Ð	ATE		
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US	5386	031			Α		1995	0131		US	1993	-16	577	51		1	9931	215	<
CA	2176	040																	
WO	9516	689			A1		1995	0622		ΨO	1994	-05	:122	292		1	9941	026	<
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		MD.	NO.	NZ.	PL.	RO,	RU,	SI,	SK,	ΤJ	, UA	, ι	JZ						
	RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IE	, 1	IT,	LU,	MC,	NL,	PT,	SE	
AU	9480							0703											
AU	6812	03			B2		1997	0821											
EP	7343	88			A1		1996	1002		EΡ	1994	-93	320	56		1	9941	026	<
	R:	AT.	BE.	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IE	, 1	T,	LI,	LU,	MC,	NL,	PT,	SE
HU	7468	8			A2		1997	0128		HU	1996	-16	564			1	9941	026	<
JP	0950	6614			T		1997	0630		JP	1994	-53	167	17		1	9941	026	<
	9602						1996	0614		NO	1996	-25	542			1	9960	614	<
RIORIT	Y APP	LN.	INFO	. :						US	1993	-16	577	51		A 1	9931	215	<
										wo	1994	-05	512	292		w 1	9941	026	<

WO 1994-US12292 W 19941026 <
OTHER SOURCE(S): CASREACT 122:314562; MARPAT 122:314562
IT 163217-79-69, 2-Amino-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-3Hpyrrolo[3,2-d]pyrimidine-6-diazonium chloride
RL: IMF (Industrial manufacture): RCT (Reactant): SPN (Synthetic
preparation): PREP (Preparation): RACT (Reactant) or reagent)
(preparation of
2-amino-3,5-dihydro-7-substituted-4H-pyrrolo[3,2-d]pyrimidin4-ones via regioselective diazotization/hydrogenation of 2,6-diamino
precursors)

predursors)
163217-79-6 CAPLUS
1H-Pyrrolo[3, 2-d]pyrimidine-6-diazonium, 2-amino-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-, chloride (9CI) (CA INDEX NAME)

L16 ANSWER 22 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

A process for the preparation inno-3,5-dihydro-7-substituted-4H-pyrrolo[3,2-d]pyrimidin-4-ones [I] and pharmaceutically acceptable acid addition salts thereof wherein R is aryl or heteroaryl which comprises: Step (a) treating a compound II wherein R is as defined above with a diazotization reagent in a solvent to afford III wherein X is Cl, Br, I, BF4, FP6, or HS04 and R is as defined above; Step (b) treating III with hydrogen in the presence of a catalyst and a solvent to afford a compound I; Step (c) and, if desired, converting I to a corresponding pharmaceutically acceptable acid addition salt by conventional means, and if so desired, converting the corresponding pharmaceutically acceptable acid addition salt to a compound

I by conventional means.

L16 ANSWER 23 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:334055 CAPLUS
DOCUMENT NUMBER: 122:239630
Pyrrolopyrimidines. I. Electrophilic substitution reactions of 1,3-dimethylpyrrolo[3,2-d)pyrimidine-2,4-disc

reactions of 1,3-dimethylpyrrolo[3,2-d]pyrimidineTsupak, E. B.; Tkachenko, Yu. N.; Pozharsky, A. F.
Rostov. Gos. Univ., Rostov-on-Don., 344104, Russia
Khimiya Geterotsiklicheskikh Soedinenii (1994
), (9), 1242-8
CODEN: KGSSAQ: ISSN: 0132-6244
Latviiskii Institut Organicheskogo Sinteza
Journal
Russian

AUTHOR(S): CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE:

Russian 162405-70-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)
162405-70-1 CAPUS
HH-Pyrrolo[3,2-d]pyrimidine-2,4(3H,5H)-dione, 1,3-dimethyl-6,7-dinitro-(SCI) (CA INDEX NAME)

Electrophilic halogenation, aminomethylation, acylation, and azo coupling reactions of the title compound (I) proceed at position 7; nitration in HOAc goes primarily at position 6. In some cases the 6,7-disubstituted derivs. are obtained.

1.16 ANSWER 24 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L16 ANSWER 24 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
20:315430 CAPLUS
Evidence for a pathway independent from
2'-deoxyguanosine and reversible by IL-2 by which
purine nucleoside phosphorylase inhibitors block
T-cell proliferation
Boehneke, W. -H.; Gilbertsen, R. B.; Hemmer, J.;
Sterry, W.
CORPORATE SOURCE:
SOURCE:
SOURCE:
DEP. Dermatol., Univ. Ulm, Germany
Scandinavian Journal of Immunology (1994),
39(3), 327-32
CODEN: SJIMAX; ISSN: 0300-9475
Journal
English
English

CODEN: SJIMAX: ISSN: 0300-94/5
Journal
LANGUAGE: English
IT 115787-68-3, CI-972
RL: BIOL (Biological study)
(T-cell proliferation suppression by)
RN 115787-68-3 CAPIUS
CN 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

### ● HC1

Patients with homozygous deficiency of purine nucleoside phosphorylase (PRP) present with a T-cell selective immune deficiency. To elucidate the potential use of PNP inhibitors in the therapy of cutaneous T-cell lymphomas (CTCLs), the authors studied the effects of CI-1000 (formerly PDI41955-2) and CI-972 on a T-cell line MyLa established from a patient with mycosis fungoides. Both PNP inhibitors had significant, dose-dependent, inhibitory effects on the proliferation of the T-cell line. CI-1000 (EDSO: 3.7 µM) was approx. six-fold more potent in blocking 3H-thymidine uptake than CI-972 (EDSO: 22.5 µM). The inhibitory offect of either substance could not be increased by addition of deoxyguanosine. Flow cytometric anal. revealed that both PNP inhibitors caused a block in the S-phase of the cell cycle. The inhibitory effect on proliferation was reversible partially by addition of IL-2. When testing proliferation inhibition of both substances on an IL-2-dependent T-cell line (SeAx), their inhibitory effects were reduced significantly. These data document a mechanism of action of the PNP inhibitors independent of deoxyguanosine and partially reversible by IL-2. The observations suggest the potential use of PNP inhibitors in the therapy of cutaneous T-cell lymphomas and provide evidence for a pathway independent from deoxyguanosine by which PNP inhibitors might function in T cells.

L16 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1994:107047 CAPLUS DOCUMENT NUMBER: 120:107047

9-Substituted-8-halo or -8-hydroxy-9-deazaguanines as TITLE:

y-substituted-8-halo or -8-hydroxy-9-deazagua inhibitors of purine nucleoside phosphorylase Josyula, Ushar-Sircar, Jagadish C. Warner-Lambert Co., USA U.S., 7 pp. CODEN: USXXAM INVENTOR(S)

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE KIND APPLICATION NO. DATE US 5236926 A 19930817 US 5281708 A 19940125 PRIORITY PAPEN. INFO:: MARPAT 120:107047 IT 152581-31-2P 152581-33-4P 152581-34-5P 152581-31-2P 152581-33-4P 35281-34-5P US 1992-829850 19920203 <--19930304 <--A3 19920203 <--US 1993-27212 US 1992-829850

152581-35-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and purine nucleoside phosphorylase inhibitory activity of)
152581-31-2 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2-amino-6-bromo-1,5-dihydro-7-(3-thienylmethyl) - (9CI) (CA INDEX NAME)

152581-33-4 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2-amino-1,5-dihydro-6-iodo-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

152581-34-5 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2-amino-6-chloro-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

• HC1

152581-35-6 CAPLUS
IH-Pyrcolo[3,2-d]pyrimidine-6-diazonium, 2-amino-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-, tetrafluoroborate(1-) (9Cl) (CA INDEX NAME)

CRN 152581-28-7 CMF C11 H9 N6 O S

CM 2

14874-70-5 B F4 CCS

152581-36-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and purinenucleoside phosphorylase inhibitory activity of)
152581-36-7 CAPLUS
4H-Pyrcno[03,2-d]pyrimidin-4-one, 2-amino-6-fluoro-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

152581-32-3 CAPLUS
Propanamide, N-[4,5-dihydro-6-iodo-4-oxo-7-(3-thienylmethyl)-1H-pycrolo[3,2-d]pycimidin-2-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

IT 115787-59-2
R1: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of purine nucleoside phosphorylase
inhibitors)
RN 115787-59-2 CAPLUS
CN 4H-Pyrrolo(3.2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3thienylmethyl) - (9CI) (CA INDEX NAME)

Title compds. I [R = (un)substituted Ph, 3-thienyl; R2 = H, (un)substituted NH2: X = F, Cl. Br, I, OH; n = 0-4], which are inhibitors of purine nucleoside phosphorylase and are selectively cytotoxic to T lymphocytes but not to B cells, are prepared Thus, 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)-4H-pyrclolpyrimidin-4-one was diazotized and reacted with HPF6, the diazonium intermediated brominated, then amidated with

Page 121

L16 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

152581-29-8P 152581-30-1P 152581-32-3P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation and reaction of, in preparation of purine nucleoside phorylate)

phosphorylation and reaction of, in preparation of putine nucleoside phosphorylation in this interpretation of putine nucleoside inhibitors and T cell cytotoxic agents)

RN 15296-129-8 CAPLUS
CN IH-Pytrolo(3,2-d]pyrimidine-6-diazonium, 2-amino-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-, hexafluorophosphate(1-) (SCI) (CA INDEX NAME)

CM

CRN 152581-28-7 CMF C11 H9 N6 O S

CM

16919-18-9 F6 P CCS

CRN CMF CCI

152581-30-1 CAPLUS
Propanamide, N-[6-bromo-4,5-dihydro-4-oxo-7-(3-thienylmethyl)-1Hpyrrolo[3,2-d]pyrimidin-2-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

L16 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) pivalic anhydride, and the amide hydrolyzed, forming 2-amino-6-bromo-3,5-dihydro-7-(3-thieny)lmethy)-4H-pyrrolo[3,2-d]pyrimidin-4-one, which demonstrated 501 inhibitory concn. against purine nucleoside phosphorylase

L16 ANSWER 26 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1994:286 CAPLUS DOCUMENT NUMBER: 120:286

1994:286 CAPLUS
120:286
PD 141955 and CI-972; 9-deazaguanine analog purine
nucleoside phosphorylase inhibitors. II. Effects on
nucleoside catabolism in human and rat blood in vitro
Dong, Mi K., Gilbectsen, Richard B.
Parke-Davis Pharm. Res., Warner-Lambert Co., Ann
Arbor, M., 48105, USA
Agents and Actions (1993), 39(Spec. Conf.
Issue), C99-C101
CODEN: AGACBH: ISSN: 0065-4299 AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal

DOCUMENT TYPE:
LANGUAGE: English
IT 115787-68-3, CI-972
RL: BIOL (Biological study)
nucleoside catabolism response to, in blood of humans and lab animals)
RN: 115787-68-3 CAPUS
CN: 4H-Pyccolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienyimethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

### • HC1

Patients with deficiency in purine nucleoside phosphorylase (PNP) have elevated levels of the PNP substrates inosine, guanosine, and (carely) 2'-deoxyguanosine (GdR) in their plasma and urine. GdR is critical because it serves as a precursor of GdTP, which blocks T-cell replication, thus leading to T-cell-selective immune dysfunction. The authors adapted these findings to the study of PNP inhibitors in human and rat blood in vitro. Blood was spiked with GdR (2.5 µg/mL) and the effects of PD 141955 (9-deaza-9-(3-thienylmethyl))quanine: 2-amino-3.5-dihydro-7-(3-thienylmethyl)-4H-pyrclo[3,2-d]pyrimidine-4-one) and CI-972 (8-amino-9-deaza-9-(3-thienylmethyl)quanine: 2,6-diamino-3.5-dihydro-7-(3-thienylmethyl)-4H-pyrclo[3,2-d]pyrimidin-4-one) on GdR catabolism were determined GdR was metabolized 89 times faster in human blood than in rat blood (half-life -12.0 ± 1.4 s in human blood). When PD 141955 (1 µg/mL) was added to human blood before spiking, the GdR half-life increased to > 60 min. In contrast, CI-972 (1 µg/mL) extended the GdR half-life to 7.2 ± 1.7 min. Both PD 141955 and CI-972 at 1 µg/mL significantly retarded GdR catabolism from rat blood.

L16 ANSWER 28 OF 60 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

L16 ANSWER 28 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:662013 CAPLUS
TITLE: 1993:662013 CAPLUS
TITLE: Biochemical and pharmacological studies with 9-benzyl-9-deazaguanine and related compounds
AUTHOR(S): Bennett, L. Lee, Jr.: Allan, Paula W.: Noker, Patricia E.: Rose, Lucy M.: Niwas, Shrir Montgomery, John A.: Erion, Mark D.
CORPORATE SOURCE: Kettering-Heyer Lab., BioCryst Pharm. Inc.,
Birmingham, AL, USA
Journal of Pharmacology and Experimental Therapeutics (1993), 266(2), 707-14
CODEN: JPETAB: ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 151561-95-4 151561-96-5
RI: BIOL (Biological study)
(deoxyguanosine cytotoxicity potentiation by, purine nucleoside phosphorylase inhibition and structure in relation to)
RN 151561-95-4 CAPLUS
CN 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,7-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

151561-96-5 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,7-dihydro-7-(phenylmethyl)-(9C1) (CA INDEX NAME)

CH2-Ph

Certain derivs. of 9-deazaguanine that contain arylmethyl, heteroarylmethyl or cycloalkylmethyl groups at the 9-position are potent inhibitors of purine nucleoside phosphorylase (PNP, E.C. 2.4.2.1). To determine whether these agents can produce metabolically significant

determine whether these agents can produce mesons..., ..., inhibition of PNP in cells and in animals, the authors performed pharmacol. studies with a representative member of the series, 9-benzyl-9-deazaguanine (BzDAG). BzDAG was a potent inhibitor of PNP from calf spleen (KI = 12 nM). It was also an effective inhibitor of PNP in cells and in animals as shown by the findings that it 1) inhibited the conversion of inosine to nucleotides in LI210 cells in culture at concess. that had little effect on the utilization of hypoxanthine: 2) potentiated the toxicity of

Page 122

L16 ANSWER 27 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1994:285 CAPLUS
120:285
PD 141955 and CI-972: 9-deazaguanine analog purine nucleoside phosphorylase inhibitors. I. Suppression of the human mixed lymphocyte reaction (MLR)
AUTHOR(S):
4UTHOR(S):

LANGUAGE: IT 115787-68-3, CI-972

RL: BIOL (Biological study) (T-cell-selective immunos phosphorylase inhibitor) 115787-68-3 CAPLUS immunosuppression by, as purine nucleoside

115787-68-3 CAPLUS 4H-Pyrcolo(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

### • HCl

Inhibitors of purine nucleoside phosphorylase (PNP) are of interest as potential T-cell-selective immunosuppressive agents and for other uses. PO 141955 (9-deaza-9-(3-thienylaethyl)guanine: 2-amino-3,5-dihydro-7-(3-thienylnethyl)guanine: 2-amino-3,5-dihydro-7-(3-thienylnethyl)guanine: 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)guanine: 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)guanine: 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)guanine: 3,6-diamino-3,5-dihydro-7-(3-thienylmethyl)-4H-pyrrolo(3,2-d)pyrinidin-4-one) in PNP enzyme inhibition assays. In the human MIM, PD 141955 has ICSOs of 2.8 and 12.8 µM in the presence and absence, resp., of 15 µM GdR (means from 10 assays), while the ICSOs of C1-972 tested in parallel are > 30 µM. Concentration-dependent accumulation of dGTP occurs

PD 141955-treated MLRs under conditions in which CI-972 lacks detectable activity. Thus, consistent with its greater PNP inhibitory activity in a cell free system, PD 141955 is significantly more potent than CI-972 in its ability to suppress the MLR.

ANSWER 28 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) deoxyguanosine to CCRF-CEM cells in culture: 3) increased the pools of deoxy GTP in CCRF-CEM, Molt-3 and Molt-4 cells that had been treated with deoxyguanosine: 4) prevented the toxicity of 6-thioguanosine to HED-2 cells in culture: 5) increased the plasma levels of endogenous inosine in rats; and 6) increased the plasma levels of 2',3'-dideoxyinosine in rats that had received BzDAG and dideoxyinosine in combination. Pharmacokinetic anal. of BzDAG in the rat showed it to be 48% orally bioavailable (at a dose of 5 mg/kg). About 95% of BzDAG was protein bound. After i.v. administration of BzDAG (5 mg/kg), more than 50% of the erythrocyte PNP was inhibited for 40 min. These results indicate that the 9-substituted 9-deazaguanines are potent orally active PNP inhibitors and are therefore of potential clin. interest as immunosuppressive and anti-inflammatory agents.

L16 ANSWER 29 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1993:551496 CAPLUS DOCUMENT NUMBER: 119:151496 Activities of two 9 days Activities of two 9-deazaguanine analog inhibitors of purine nucleoside phosphorylase, CI-972 and PD 141944,

AUTHOR (5):

purine nucleoside phosphorylase, CI-972 and PD 141944, in vitro and in vivo
Gilbertsen, R. B.; Dong, M. K.; Josyula, U.; Sircar, J. C.; Wilburn, D. J.; Conroy, M. C.
Dep. Immunopathol., Warner-Lambert Co., Ann Arbor, MI, 48105, USA
Annals of the New York Academy of Sciences (
1993), 685(Immunomodulating Drugs), 248-51
CODEN: ANYAS; ISSN: 0077-8923
Journal; General Review CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

JAGE: English
115787-68-3, CI-972
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(immunosuppressant activity of)
115787-68-3 CAPLUS
4H-Pyrcrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

with 8 refs., of the inhibitory actions of CI-972 and PD 141955 B and T cell lymphoblastoid cell line [3H]TdR uptake and dGTP

ANSWER 30 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 4H-Pyrrolo(3,2-d)pyrimidin-4-one, 2-amino-7-(cyclohexylmethyl)-1,5-dihydro-6-nitro- (9CI) (CA INDEX NAME)

AB Alicyclic and heteroalicyclic derivs. of 9-deazaguanine [2-amino-1,5-dihydro-4H-pyrrolo[3,2-d[pyrimidin-4-one) are, with one exception, potent inhibitors of purine nucleoside phoshporylase [I] equaling the corresponding 9-arylmethyl derivs. previously investigated. The mode of binding of these compds. to I was determined by x-ray crystallog.

L16 ANSMER 30 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:472420 CAPLUS
DOCUMENT NUMBER: 1197:72420 CAPLUS
TITLE: Structure-based design of inhibitors of purine nucleoside phosphorylase. 2. 9-Alicyclic and 9-heteroalicyclic derivatives of 9-dearaguanine AUTHOR(S): Secrist John A., III. Nivas, Shrir Rose, Jerry D.; Babu, Y. Sudhakar, Bugg, Charles E.; Erion, Mark D.; Guida, Wayne C.; Ealick, Steven E.; Montgomery, John A.

Guida, Wayne C.: Ealick, Steven E.: Montgomery, John A.

CORPORATE SOURCE: BioCryst Pharm., Inc., Birmingham, AL, 35244, USA Journal of Medicinal Chemistry (1993), 36(13), 1847-54

CODEN: JMCMAR: ISSN: 0022-2623

DOCUMENT TYPE: Journal
LANSOURCE(S): CASPEACT 119:72420

IT 139367-73-0DP, purine nucleoside phosphorylase complex RL: PRP (Properties): SPN (Synthetic preparation): PREP (Properties): GN (Synthetic preparation): PREP (Properties): SPN (Synthetic preparation): PREP (Properties): GN (Synthetic preparation): PREP (Properties): SPN (Synthetic pre

139367-73-0P IT

148020-45-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) ΙŤ

(preparation and reduction of) 148020-45-5 CAPLUS

L16 ANSWER 31 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1993:419923 CAPLUS DOCUMENT NUMBER: 119:19923

TITLE:

119:19923
Application of crystallographic and modeling methods in the design of purine nucleoside phosphorylase inhibitors. [Erratum to document cited in CAl16(13):120391p]
Ealick, Steven E.; Babu, Y. Sudhakar; Bugg, Charles E.; Ecion, Mark D.; Guida, Wayne C.; Montgomery, John A.; Secrist, John A., III
Univ. Alabama, Birmingham, Al., 35294, USA
Proceedings of the National Academy of Sciences of the United States of America (1992), 89(20), 9974
CODEN: PNASA6: ISSN. 0027-022 AUTHOR(S):

CORPORATE SOURCE:

CODEN: PNASA6; ISSN: 0027-8424

DOCUMENT TYPE: Journal LANGUAGE: English IT 115787-58-1 115787-59-2 139367-73-0

115787-59-1 115787-59-2 139367-73-0
RU: BIOL (Biological study)
(purine nucleoside phosphorylase inhibition by, structure in relation to (Erratum))
115787-58-1 CAPUS
4H-Pyrcolo(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)-(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS #H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

139367-73-0 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(cyclohexylmethyl)-1,5-dihydro- (9CI) (CA INOEX NAME)

L16 ANSWER 31 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

AB An error in the footnote on p. 11540 giving incorrect Protein Data Bank reference codes has been corrected. The error was not reflected in the abstract or the index entries.

L16 ANSWER 33 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:81339 CAPLUS
1111E: 113:81339 CAPLUS
118:81339 CAPLUS
PATENT ASSIGNEE (S): Year—re-Lambert Co., USA
AUSTRIAN, 14 pp.
CODEN: AUXXAK
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
FAMILY ACC. NUM. COUNT: 1 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. APPLICATION NO. KIND DATE DATE AT 395156 B 19921012 AT 1987-2655 19871008 <-AT 8702655 A 19920215 AT 1987-2655 19871008 <-AT 8702655 A 19920215 AT 1987-2655 19871008 <-OTHER SOURCE(5): MARPAT 118:81339
IT 115787-58-1P 115787-59-2P 115787-60-5P
115787-61-6P 115787-69-3P 115812-51-6P
145671-78-9P
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of, as immunomodulator)
RN 115787-58-1 CAPLUS
CN 4H-Pyrrolo[3], 2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, .2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

115787-60-5 CAPLUS
4H-Pycrolo[3,2-d]pycimidin-4-one, 2,6-diamino-7-(2-furanylmethyl)-1,5-dihydro- (9CI) (CA INDEX NAME)

L16 ANSWER 32 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1993:94336 CAPLUS DOCUMENT NUMBER: 118:94336

DOCUMENT NUMBER: TITLE:

118:94336
Treating infectious encephalitis with neuronal amino acid receptor-blocking agents Bernton, Edward W.: Tortella, Frank C. United States Dept. of the Army, USA PCT int. Appl., 34 pp. CODEN: PIXXD2
Patent
English

INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. A1 19921210 WO 1992-US4454 19920527 (
W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, F1, GB, HU, JP, KP, KR, LK, LU, MG, MW, NL, NO, PL, RO, RU, SD, SE, RW: AT, BE, BF, BJ, CF, CG, CH, CI, CH, DE, DK, ES, FR, GA, GB, GN, GR, 1T, LU, MC, ML, MR, NL, SE, SN, TD, TG

AU 9221S97 A 19930108 AU 1992-21597 19920527 (
PRIORITY APPLN. INFO:: WO 1992-US4454 A 19920527 (
WO 1992-US454 A 1992052 (
WO 1992-19920527 <--

19920527 <--A 19910605 <--A 19920527 <--

115787-68-3, CI-972
RL: BIOL (Biological study)
(infectious and parainfectious encephalitis treatment by)
115787-68-3 CAPLUS
4H-Pyrrclo[3,2-d] pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

Infectious and parainfectious encephalitis and encephalopathy from diverse causes, are treated with agents which block the neuronal excitatory amino acid receptor, specifically the N-methylaspartate binding receptor, or with other drups which block amino acid excitotoxicity by inhibiting release of endogeneous excitatory amino acids. The drups of choice are NX-801, dextromethorphan, carbetapentane, 7-chlorokynurenic acid, caramiphen, etc. The in-vitro degradation and lysis of fetal rat neurons by Mycoplasma fermentans was inhibited by pretreatment with MX-801.

L16 ANSWER 33 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

115787-61-6 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-[(2-methoxyphenyl]methyl]- (9CI) (CA INDEX NAME)

115787-68-3 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

115812-51-6 CAPLUS 4H-Pyrrolo(3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(2-thienylmethyl)- (9C1) (CA INDEX NAME)

145671-78-9 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1.5-dihydro-7-[2-thienylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 33 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

HC1

GI

Title compds. [I; At = (MeO-substituted) Ph,  $\alpha$ - or 3-thienyl, 2-furyl], were prepared Thus, PhCH2CH(CN)CO2Et was stirred 15 min with NaH in DHF; 2-amino-5-chloro-5-nitro-4(3H)-pyrimidinone in DMF was added and the mixture was kept 24 h at 65° to give 62% intermediate II (R = CO2Et). This was stirred 1 h in 1 N NaOH to give 36% II (R = H). The latter was heated with Na25204 in IN NaOH at 90° followed by treatment with HCl to give 23% I (Ar = Ph). I inhibited purine nucleoside phosphorylase with ICSO = 0.9-3.18  $\mu$ M. I showed cytotoxicity to T-cells but not B-cells in the presence of 2'-deoxyguanosine.

ANSWER 34 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) The resp. 1C50 values for inhibition of MOLT-4 cell growth in the absence and presence of 10 mM 2'-deoxyguanosine (60R) were >50 and 5.06 mM for C1-972 and 15.4 and 0.061 mM for PD 141955. PD 141955 induced accumulation of dGTP in GdR-treated MOLT-4 and CDM cells at log-lower concns. than were required of C1-972, and the magnitude of dGTP accumulation in PD 141955-treated T cell cultures was markedly greater (e.g. 366 vs 100 pmol/106 CDM cells at 10 mM). PD 141955 administered orally produced a dose-dependent elevation of plasma inosine and guanosine in rats over a broad concn. range. Mean plasma inosine concns. following a 150 mg/kg p.o. dose peaked at 6.21 and 13.2 mM in C1-972 and PD 141955-treated crasp, resp. Low levels of inosine were detectable at 50 mg/kg following oral administration of PD 141955.

ANSWER 34 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN SSION NUMBER: 1992:625928 CAPLUS MENT NUMBER: 117:225928 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: 111:22928 Comparative in vitro and in vivo activities of two 9-deazaguanine analog inhibitors of purine nucleoside phosphorylase, CI-972 and PO 141955 Gilbertsen, Richard B.; Josyula, Usha: Sircar, Jagadish C.: Dong, Mi K.: Wu, Wen Shen: Conroy, Mary AUTHOR(S): Carol Parke-Davis Pharm. Res., Warner-Lambert Co., Ann Arbor, MI, 48105, USA Biochemical Pharmacology (1992), 44(5), CORPORATE SOURCE: SOURCE: 996-9 CODEN: BCPCA6; ISSN: 0006-2952 

GΙ

An in-parallel comparison is presented of the in vitro and in vivo properties, of two 9-deazaguanine analog inhibitors of purine nucleoside phosphorylase (PNP), CI =972 (I) and PD 141955 (II) (published Ki values of 0.83-8.0 and 0.08 µM, resp.). Despite structural similarities, PD 141955 was considerably more potent and active in all systems studied.

L16 ANSWER 35 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1992:400488 CAPLUS DOCUMENT NUMBER: 117:488

TITLE:

AUTHOR(S):

1)7:6.10U488 CAPLUS
117:488
Biochemical and pharmacological properties of CI-972, a novel 9-deazaguanine analog purine nucleoside phosphorylase (PNP) inhibitor Gilbetsen, Richard B.: Dong, Mi K.: Wilburn, David J.: Kossarek, Lynn M.; Sircar, Jagadish C.: Kostlan, Catherine R.: Concoy, Mary Carol
Parke-Davis Pharm. Res. Div., Warner-Lambert Co.. Ann Arbor, MI, 48105, USA
Advances in Experimental Medicine and Biology (1991), 309A (Purine Pyrimidine Metab. Man 7, Pt. A), 41-4
CODEN: ABMBAP; ISSN: 0065-2598
Journal English

CORPORATE SOURCE:

SOURCE:

CODEN: APMBP; ISSN: 0065-2598

DOCUMENT TYPE: Journal
LANGUAGE: English
II 115787-68-3, CI-972
Rl: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacol. of, as immunosuppressant)
115787-68-3 CAPUS
4H:Pyrcolo[3, 2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thionylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

#C1

CI-972 (2.6-diamino-3,5-dihydro-7-(3-thienylmethyl)-4H-pyrrolo[3,2-d]pyrimidin-4-one monohydrochloride, monohydrate) is a nowel inhibitor of PNP (Ki = 0.83 µM) under development as a T cell-selective immunosuppressive agent. CI-972 inhibited proliferation (3H-thymidine uptake) of human MoI.4 (f cell) but not MoI.8 (B cell) lymphoblasts with resp. IC50s of 3.0 and >50 µM when tested with 10 µM 2'-deoxyguanosine. Without addition of exogenous 2'-deoxyguanosine, Cl-972 was not inhibitory to any human T or B lymphoblastoid cell line tested. 2'-Deoxycytidine (10 µM), but not hypoxanthine or adenine, restored MoII-4 cells growth. Inhibition of 3H-thymidine uptake in MOIT-4 cells correlated with accumulation of dGTP, while alterations in guanine nucleotides were not observed 2'-Deoxycytidine (10 µM) also blocked dGTP accumulation in MOIT-4 cells. Cl-972 showed activity in vivo over a broad dose range: At 5-150 mg/kg p.o., Cl-972 produced dose-dependent elevation of plasma inosine one h after administration to rats (mean maximum of 2.62 vs. 0.06 µM in controls). Guanosine was also elevated in a concentration-dependent manner, although the effect was not as impressive Plasma nucleosides remained elevated for up to four h following a single oral dose of Cl-972.

L16 ANSWER 36 OF 60
ACCESSION NUMBER:
DOCUMENT NUMBER:
117:65

AUTHOR(S):
118:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:

DOCUMENT TYPE:
LANGUAGE:

AVAILABLE OF ARMBAP:
LANGUAGE:

AVAILABLE OF ARMBAP:
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DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
DOCUME

LANGUAGE: English
IT 115787-68-3
RL: BIOL (Biological study)
(as immunosuppressant, T-lymphocyte suppression in, purine nucleoside phosphorylase inhibition in relation to, in humans and laboratory

als) 115707-68-3 CAPLUS 4H-Pyrrolo(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

A review with 10 refs. emphasizing the activity of CI-972.

L16 ANSWER 37 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

115787-61-6 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-[(2-methoxyphenyl]methyl]- (9CI) (CA INDEX NAME)

(Continued)

115812-51-6 CAPLUS 4H-Pyrcalo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydco-7-(2-thienylmethyl)- (9CI) (CA INDEX NAME)

ΙT

115787-68-3P 115787-71-8P 140676-85-3P 140676-86-4P 140676-87-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 115787-68-3 CAPUS 4H-Pyrcolo(3),2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

115787-71-8 CAPLUS 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-[(2-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Page 126

ANSWER 37 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN SSION NUMBER: 1992:227846 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ACCESSION NUMBER:

1992:227846 CAPUS

DOCUMENT NUMBER:

116:227846

IITLE:

116:227846

IITLE:

116:227846

IITLE:

Synthesis of pyrrolo[3,2-d]pyrimidines, a new class of purine nucleoside phosphorylase.

Synthesis of pyrrolo[3,2-d]pyrimidines, a new class of purine nucleoside phosphorylase inhibitors as potentially T-cell selective immunosuppressive agents.

Description of 2,6-diamino-3,5-dihydro-7-(3-thienylmethyl)-4H-pyrrolo[3,2-d]pyrimidin-4-one (CI-972)

AUTHOR(S):

Sircar, Jagadish C.; Kostlan, Catherine R.;

Gilbertsen, Richard B.; Bennett, Mary K.; Dong, Mi K.;

Cetenko, W. J.

CORPORATE SOURCE:

Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA

Journal of Medicinal Chemistry (1992),

35(9), 1605-9

CODEN: JNCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal

LANGUAGE:

115787-58-1P 115787-59-2P 115787-60-5P

115787-61-6P 115812-51-6P

RI: SSN (Synthetic preparation): PREP (Preparation)

(preparation and human purine nucleoside phosphorylase inhibition by, as T-cell selective immunosuppressant)

RN 11787-58-1 CAPIUS

RN 11787-58-1 CAPIUS

CM 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)-

115787-59-2 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2.6-diamino-1,5-dihydro-7-{3-thienylmethy1}- (9CI) (CA INDEX NAME)

115787-60-5 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(2-furanylmethyl)-1,5-dihydro- (9CI) (CA INDEX NAME)

L16 ANSWER 37 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● HC1

140676-85-3 CAPLUS 4H-Pyrcolo[3,2-d]pycimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)-, monohydrochloride (9C1) (CA INDEX NAME)

HC1

140676-86-4 CAPLUS
4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(2-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

140676-87-5 CAPLUS
4H-Pyrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(2-furanylmethyl)-1,5-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)

L16 ANSWER 37 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

HC1

GI

Purine nucleoside phosphorylase (PNP) is a purine-metabolizing enzyme in the purine cascade and has been a target for drug design for sometime. A series of potent human PNP inhibitors, pyrrolo[3,2-d]pyrimidines (9-deazaguanies), has been synthesized and evaluated in the enzyme assay and in the cell line assay using MOLT-4 (T-cell) and MOL-8 (B-cell) lymphoblasts for selectivity. One of the compds. (CI-972 [I), was found to be moderately potent, competitive, and reversible inhibitor of PNP with Ki = 0.83 µM. It was also found to be selectively cytotoxic to MOLT-4 lymphoblasts (ICSO = 3.0 µM) but not to MGL-8 lymphoblasts and was avalvated further. evaluated further.

1.16 ANSWER 38 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Competitive inhibitors of the salvage pathway enzyme purine-nucleoside phosphorylase (purine-nucleoside:octhophosphate ribosyltransferase, EC 2.4.2.1) were designed by using the 3-dimensional structure of the enzyme as determined by N-ray crystallog. The process was an iterative one that utilized interactive computer graphics, Monte Carlo-based conformational searching, energy minimization, and N-ray crystallog. The proposed compds. were synthesized and tested by an in vitro assay. Among the compds designed and synthesized are the most potent competitive inhibitors of purine nucleoside phosphorylase thus far reported.

L16 ANSWER 38 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1992:120391 CAPLUS

116:120391 DOCUMENT NUMBER: TITLE:

Application of crystallographic and modeling methods in the design of purine nucleoside phosphorylase

in the design of purine nucleoside phosphorylase inhibitors Ealick, Steven E.; Babu, Y. Sudhakar; Bugg, Charles E.; Erion, Mark D.; Guida, Wayne C.; Montgomery, John A.; Secrist, John A., III univ. Alabama, Birmingham, Al., 35294, USA Proceedings of the National Academy of Sciences of the United States of America (1991), 88(24), 115404.

11540-4
CODEN: PNASAG: ISSN: 0027-8424
CODEN: PNASAG: ISSN: 0027-8424
LANGUAGE: English
IT 115787-58-1 115787-59-2 139367-73-0
RL: BIOL (Biological study)
(purine nucleoside phosphorylase inhibition by, structure in relation

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

to)
115787-58-1 CAPLUS
4H-Pyrrolo(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS 4H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

139367-73-0 CAPLUS 4H-Pycrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(cyclohexylmethyl)-1,5-dihydro- [9CI] (CA INDEX NAME)

L16 ANSWER 39 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1991:574277 CAPLUS DOCUMENT NUMBER: 115:174277

DOCUMENT NUMBER: TITLE:

AUTHOR (S):

115:174277
Selective in vitro inhibition of human molt-4 T lymphoblasts by the novel purine nucleoside phosphorylase inhibitor. C1-972
Glibertsen, Richard B.; Dong, Mi K.; Kossarek, Lynn M.; Sircar, Jagadish C.; Kostlan, Catherine R.; Conroy, Many Carol
Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA
Biochemical and Biophysical Research Communications (1991), 178 (3), 1351-8
CODEN: BBRCA9: ISSN: 0006-291X
Journal CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal English

DOCUMENT IFFE:

English

IT 115787-68-3, CI 972

RL: BIOL (Biological study)
(MOLT-4 T-lymphoblasts of human inhibition by)

RN 115787-68-3 CAPLUS

CN 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thipylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

GΙ

CI-972 (I) is a competitive inhibitor of PNPase (E.C. 2.4.2.1., Ki = 0.83  $\mu$ M) entering clin. trials as a T cell-selective immunosuppressive agent. Neither I ( $\pm$ 50 mM) nor dGuo ( $\pm$ 10  $\mu$ M) inhibited [3H]Thd uptake by human MOLT-4 (T cell) or MGL-8 (B cell) lymphoblasts, but in the presence of 10  $\mu$ M dGuo, the IC50 for I decreased to 3.0  $\mu$ M for MOLT-4 but remained at >50  $\mu$ M for MOLT-4 but remained at >50  $\mu$ M for MOLT-4 but remained at >50  $\mu$ M for MOLT-4 growth was associated with an increase in dGTP that was dependent on

L16 ANSWER 39 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) concn. and inhibited by 2'-deoxycytidine. Growth could not be restored by hypoxanthine or adenine. No alterations in GTP pools were noted in MOLT-4, and nei

L16 ANSWER 40 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN cells infected with human immunodeficiency virus. (Continued)

L16 ANSWER 40 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1991:115067 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 114:115067
Combination therapy involving 2',3'-dideoxypurine nucleoside and an inhibitor of purine nucleoside phosphocylase for the treatment of retroviral disease Erion, Mark D.
Ciba-Geigy A.-G., Switz.
Euc. Pat. Appl., 10 pp.
CODEN: EPXXDW
Patent
German
1 114:115067 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. DATE APPLICATION NO. DATE EP 374096
EP 374096
R: AT BE, CF
AT 82855
IL 92587
AU 8946074
AU 628113
CA 2005205
DX 8906305
JP 02204414
ZA 8909510
PRIORITY APPLN. INFO.: THE STATE OF THE S A1 B1 DE, FR, T A A B2 A1 A 19891205 <--CA 1989-2005205 DK 1989-6305 JP 1989-321624 ZA 1989-9510 US 1988-284153 US 1989-315354 EP 1989-810920

OTHER SOURCE(5): MARPAT 114:115067
IT 115787-59-2
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study), unclassified): BIOL (Biological study)
(antiviral activity of dideoxypurine nucleosides enhancement by)
RN 115787-59-2 CAPLUS
CN 4H-Pyrrolo(3,2-cd)pyrtmidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

A combination therapy of 2',3'-dideoxypurine nucleosides with purine nucleoside phosphorylase inhibitors is useful in the treatment of retroviral diseases, such as AIDS. The purine nucleoside phosphorylase inhibitors delay the biodegrdn, and enhance the activity of the 2',3'-dideoxypurine nucleosides. A composition comprised 50 g 2',3'-dideoxyinosine and 1500 g 8-amino-9-(2-thienylmethyl)guanine. Enhancement of the activity of former by the latter was demonstrated on Hg

L16 ANSWER 41 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1989:75141 CAPLUS DOCUMENT NUMBER: 110:75141

DOCUMENT NUMBER: TITLE:

110:75141
A novel procedure for preparing pytrolo[3,2-d]pytrinidine (9-desazapurine) and its
d-oxo-3,4-dihydro derivative (9-desazahypoxanthine)
Ektova, L. V.; Preobrazhenskaya, M. N.
VONTS, Moscow, USSR
Khimiko-Farmatsevticheskii Zhurnal (1988),
22(7), 860-3
CODEN: KHEZAN; ISSN: 0023-1134
Journal

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: Journal

LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 110:75141
IT 118721-31-6F
RL: SPN (Synthetic preparation): PREP (Preparation)

(preparation of)
118721-31-6 CAPLUS
118721-31-6 CAPLUS
1H-Pyrcnlo[3, 2-d] pyrimidine-4,6-dione, 7-{(acetyloxy)methyl}-7-bromo-5,7-dihydro- (9CI) (CA INDEX NAME)

Bromination of pyrrolopyrimidinecarboxaldehyde I (R = CHO, Rl = H) gave 43.5% dibromo derivative I (R = Rl = Br) (II), which was hydrogenated over PdCl2 to give 78% 9-deazahypoxanthine I (R = Rl = H). Chlorination of II by POCl3 gave 70% 4-chloro derivative III, which was hydrogenated as above

give 79% 9-deazapurine.

L16 ANSWER 42 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:493048 CAPLUS
DOCUMENT NUMBER: 109:93048 Preparation and testing of aralkyldeazaguanines as immunosuppressants
INVENTOR(S): Kostan, Catherine Rose: Sircar, Jagadish Chandra
Warner-Lambert Co., USA
Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC, NUM. COUNT: English
FAMILY ACC, NUM. COUNT: 1

		DATE		LICATION NO.		DATE	
EP 260491	A1	19880323		1987-112339		19870825	
.EP 260491	B1	19910911					
R: AT, BE, CH,	DE, ES	, FR, GB,	GR, 17	LI, LU, NL,	SE		
CA 1293727	С	19911231	CA	1987-543431		19870730	
ZA 8705823	A	19890329	ZA	1987-5823		19870806	<
DK 8704402	A	19880227	DK	1987-4402		19870824	<
CA 1293727 ZA 8705823 DK 8704402 DK 169705 FI 8703648 FI 85856 FI 85856	B1	19950116					
FI 8703648	Α	19880227	FI	1987-3648		19870824	<
FI 85856 '	В	19920228					
FI 85856	С	19920610					
NO 8/03584 -	A	19880229	NO	1987-3584		19870825	<
NO 166485	В	19910422	•				
NO 166485	С,	19910731					
AU 8777416	A	19880303	AU	1987-77416		19870825	<
AU 619724	В2	19920206					
JP 63088185	A	19910422 19910731 19880303 19920206 19880419 19910915 19930801 19900508	JP	1987-209423 1987-112339		19870825	<
AT 67203	T	19910915	AT	1987-112339		19870825	<
ES 2038635	Т3	19930801	ES	1987-112339		19870825	<
US 4923872	A	19900508	US	1989-336585		19890410	<
US 4988702	A	19910129		1990-478610		19900212	<
US 5061707	A	19911029	US	1990-606640		19901031	<
US 5101030	Α	19920331		1990-606214			
US 5102879	A ´	19920407	US	1990-606677		19901031	<
CA 1320203	C2	19930713	CA	1991-616019		19910307	<
AU 9175960		19910718	AU	1991-75960		19910424	<
AU 630805	B2	19921105					
JP 08311040	Α	19961126	JP '	1996-142606		19960605	<
JP 2650644	B2	19970903					
RITY APPLN. INFO.:			U5	1986-900486 1987-59419	A	19860826	<
			US	1987-59419	A	19870618	<
			CA	1987-543431	A3	19870730	<
			EP	1987-112339	A	19870825	
				1987-209423			
			US	1987-117352	В1		
			US	1989-336585	A3	19890410	
			IIS	1990-478610	A.3	19900212	<

OTHER SOURCE(S): CASREACT 109:93048; MARPAT 109:93048 IT 115787-58-1P 115787-59-2P 115787-60-5P 115787-61-6P 115787-68-3P 115787-71-8P 115812-51-6P

L16 ANSWER 42 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

115787-68-3 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

115787-71-8 CAPLUS
4H-Pyrcolo(3,2-d)pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-[(2-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

115812-51-6 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(2-thienylmethyl)- (9C1) (CA INDEX NAME)

IT 115787-68-3P Page 129

L16 ANSWER 42 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SFN (Synthetic preparation): THU (Therapeutic use):
BIOL (Biological study): PREP (Preparation): USES (Uses)
(prepn. of, as immunosuppressant)
RN 115787-58-1 CAPLUS
CN 4H-Pyrrolo[3,2-or]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(phenylmethyl)(9CI) (CA INDEX NAME)

115787-59-2 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)- (9CI) (CA INDEX NAME)

115787-60-5 CAPLUS 4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-7-(2-furanylmethyl)-1,5-dihydro- (9CI) (CA INDEX NAME)

115787-61-6 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-[(2-methoxyphenyl]methyl]- (9CI) (CA INDEX NAME)

ANSWER 42 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continual SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as intermediate for immunosuppressant) 11578-68-3 CAPLUS (H-Pyrcolo[3,2-d]pyrimidin-4-one, 2,6-diamino-1,5-dihydro-7-(3-thienylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME) (Continued) L16

HC1

GΙ

(CH₂)_nR⁴ I

The title compds. [I, Rl, R3 = H, NH2: R2 = OH, SH; R4 = (substituted) Ph, 2- or 3-thienyl, 2- or 3-furanyl; n = 0-4] were prepared for treatment of psociasis, gout, autoimmune diseases, or transplant rejection. 2-Amino-6-chloro-5-nitro-4(3H)pyrimidinone in DMF was added to 2-cyano-3-(3-thienyl)propionate and NaH in DMF and the mixture was stirred at 70 overnight to give 52t thienylethylpyrimidinone II (R5 = COZMe). The latter was saponified with aqueous NaOH and decarboxylated in to

give II (RS = H), which was heated in aqueous NaOH containing Na2S2O4 to

(R1 = R3 = NH2, R2 = OH, R4 = 3-thienyl, n = 1). The latter had an IC50 of 0.9  $\mu m$  for inhibition of purime nucleoside phosphorylase.

L16 ANSWER 43 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:400242 CAPLUS
DOCUMENT NUMBER: 109:242
TITLE: Anine derivatives of pyrcolo[3,2-d]pyrimidines
AUTHOR(5): Modnikova, G. A.: Titkova, R. M.: Glushkov, R. G.:
Sokolova, A. S.: Silin, V. A.: Chernov, V. A.
VNIKhFI im. Ordehonikidze, Moscov, USSR
Khimiko-Farmatsevticheskii Zhurnal (1988), 22(2), 185-91
CODEN: XHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 109:242
IT 114685-16-4P 114685-17-SP 114685-18-6P
114685-19-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and toxicity and antitumor and antimicrobial activity of)
RN 114685-16-4 CAPLUS
CN SH-Pyrcolo[3,2-d]pyrimidine-7-methanamine, 4-{{2-(1-cyclohexen-1-y1)ethyl]amino}-N,N-diethyl-2-methyl-6-phenyl- (9CI) (CA INDEX NAME)

114685-17-5 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-7-methanamine, N-[2-(1-cyclohexen-1-y1)ethy1]-4-[[2-(1-cyclohexen-1-y1)ethy1]amino]-2-methy1-6-pheny1- (9CI) (CA INDEX

1.16 ANSWER 43 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

GI

A series of 28 derivs. (I) Rl = Me, Cl, amino: R2 = Cl, amino: R3 = H, Ph) R4 = H, aminomethyl) was prepared by reactions of the chloro derivs. of pycrolo[3,2-d]pycimidines with an appropriate amine. Toxicity and antitumen, antibacterial, and antitumen activities of I were tested in mice. rats, and in vitro in cultures of Staphylococcus aureus, Escherichia coli, Microsporum canis, and Candida albicans. Most I had some antitumor activity against implanted saccomas, melanomas, and carcinomas. No I was active against E coli, M. canis, or C. albicans. Toxicity of I varied with L050 = 50->500 mg/kg.

L16 ANSWER 43 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

114685-18-6 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-7-methanamine, 4-[{2-{1-cyclohexen-1-y|}ethyl]amino]-2-methyl-N-{2-methylpropyl}-6-phenyl-(9CI) (CA INDEX NAME) RN CN

114685-19-7 CAPLUS
B-Alanine, N-[(4-[[2-(1-cyclohexen-1-y1)ethyl]amino]-2-methyl-6phenyl-5H-pyrrolo[3,2-d]pyrimidin-7-yl]methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 44 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
107:236645
11.3-Dipolar cycloaddition reactions of thazolo[5,4-d]pyrimidine 1-oxides with acetylenic esters involving new ring transformations of the thiazole nucleus
AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

Kanazawa, Hashime: Ichiba, Misuzu: Tamura, Zenzo: Senga, Keitaro: Kawai, Kenichi Otomasu, Hirotaka Sch. Med., Keio Univ., Tokyo. 160, Japan Chemical & Pharmaceutical Bulletin (1987), 35(1), 35-45
COODEN: CPBTAL: ISSN: 0009-2363
JOURNAL SOURCE(S):
17 71411-49-97 71411-50-2P 111611-49-5P
111624-67-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 71411-49-9 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, dimethyl ester (9CI) (CA INDEX NAME)

71411-50-2 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3,5-trimethyl-2,4-dioxo-, dimethyl ester (9CI) (CA INDEX NAME)

111611-49-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, 6-ethyl 7-methyl ester (9C1) (CA INDEX NAME)

L16 ANSWER 44 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

111624-67-0 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, 6-methyl 7-ethyl ester (9C1) (CA INDEX NAME)

The reaction of 2-(methoxycarbonyl)-4,6-dimethylthiazolo[5,4-d]pycimidine-5,7(4H,6H)-dione 1-oxide (I) with di-Me acetylenedicarboxylate resulted in a new ring transformation of the thiazole nucleus to give 5-[2-methoxalyl-1,2-bis (methoxycarbonyl)-1,3-dimethyl-6-thiobarbituric acid, 6,7-bis(methoxycarbonyl)-1,3-dimethylpyrimido[4,5-b)[1,4]thiazine-2,4-(IH,3H)-dione, 6,7-bis(methoxycarbonyl)-1,3-dimethylpyriolo[3,2-d]pyrimidine-2,4(IH,3H)-dione, and anhydro-2-[1-methoxylayl-1-(0)sodium methoxycarbonyl)-1,3-dimethylthiazolo[5,4-d]pyrimidine-5,7(4H,6H)-dione hydroxide.
Analogously, the reaction of i with Et phenylpropiolate gave 5-[2-benzoyl-2-(ethoxycarbonyl)-1,3-dimethylp-fic-chiobarbituric acid, 5-benzoyl-7-(ethoxycarbonyl)-1,3-dimethylp-fic-chiobarbituric acid, 5-benzoyl-7-(ethoxycarbonyl)-1,3-dimethylpyriolo[3,2-d]pyrimidine-2,4(IH,3H)-dione. The structures of these products were supported by their spectral [IR, mass spectra, UV, IH-MMR or 13-C-MMR] data or by single-crystal x-ray diffraction anal. as well as by chemical transformations. The ring transformation of the thiazole nucleus can be best explained by taking into account the initial involvement of a. 1,3-dipolar cycloaddn. reaction.

L16 ANSWER 45 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) L16 ANSWER 45 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1985:504907 CAPLUS

DOCUMENT NUMBER: 103:104907 TITLE:

1985:504907 APUS
103:104907
Purines, pyrimidines, and imidazoles. Part 61.
Reaction of 6-alkylamino-4-chloro-5-nitropyrimidines with diethyl malonate, ethyl cyanoacetate, and ethyl acetoacetate and some derived pyrrolo[3,2-d]pyrimidines related to the cytokinins freegon, Stephen: Shaw, Gordon Sch. Chem., Univ. Bradford, Bradford, BD7 1DP, UK Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) {
1985), (1), 187-90
CODEN: JCPRB4: 155N: 0300-922X
Journal English
CASREACT 103:104907

AUTHOR(S): CORPORATE SOURCE: SOURCE:

CODEN: JCPRB4; ISSN: 0300-922X

JOURNAL
LANGUAGE: JOURNAL
LANGUAGE: English
OTHER SOURCE(\$): CASREACT 103:104907

T 97760-08-2P
RL: RCT (Reactant); SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation and decarboxylation of)
RN 97760-08-2 CAPLUS
CN 5H-Pyrcolo(3, 2-d)pyrimidine-7-carboxylic acid, 6-hydroxy-4-(methylamino)-, ethyl ester (9CI) (CA INDEX NAME)

AB Reaction of chloropyrimidine I (R = C1) with RICH2CO2Et (R1 = CO2Et, CN, COMe) in Me2CO containing aqueous NaOH at room temperature for 30 min gave pyrimidines I (R = CHRICO2Et, R1 as before) which on Pd/C-catalyzed hydrogenation in EtOH gave aminopyrimidines II (R1 as above). Cyclization of these compds. under various conditions gave pyrrolopyrimidine derivs. E.g., treatment of II (R1 = CO2Et) with Na2CO3 in H2O at apprx.100° gave III.

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
103:37449
103:37449
103:37449

Further studies on the ring transformation of pyrimido[5,4-e]-as-triazine 4-oxides to pyrrolo[3,2-d]pyrimidines involving 1,3-dipolar cycloaddition reaction
AUTHOR(S):

AUTHOR(S):

Kanazava, Hashime: Ichiba, Misuzu; Shimizu, Nobuyuki; Tamura, Zenzo: Senga, Keitaro
CORPORATE SOURCE:
Sch. Med., Keio Univ., Tokyo, 160, Japan
Journal of Organic Chemistry (1985), 50(14), 2413-16
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:
JOURNAL OF SOURCE (S):
CASREACT 103:37449
1T 96429-54-8P 96429-56-0P 96429-57-IP
96429-58-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 96429-54-8 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-6-ethyl-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-56-0 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-6-(4-chlorophenyl)-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester
(9CI) (CA INDEX NAME)

96429-57-1 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-2,3,4,5-

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) tetrahydro-1,3-dimethyl-6-(4-methylphenyl)-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-58-2 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-2,3,4,5-tetcahydro-1,3-dimethyl-6-(4-nitrophenyl)-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-59-3P 96429-60-6P 96429-61-7P 96429-62-8P 96429-63-9P 96429-64-0P 96429-63-1P RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)
96429-59-3 CAPUS
HI-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3,6-trimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

96429-64-0 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-6-(4-nitrophenyl)-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-65-1 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 6-benzoyl-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-53-7P 96429-55-9P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation, hydrolysis, and crystal structure of)
96429-53-7 CAPLUS
HR-Pycrolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-2,3,4,5-tetrahydro-1,3,6-trimethyl-2,4-dioxo-, ethyl ester (9C1) (CA INDEX NAME)

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS OR STN (Continued)

96429-60'6 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 6-ethyl-2,3,4,5-tetrahydro-.
1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

96429-61-7 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-6-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

96429-62-8 CAPLUS

HH-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 6-(4-chlorophenyl)-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9C1) (CA INDEX NAME)

96429-63-9 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-6-(4-methylphenyl)-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

96429-55-9 CAPLUS
IH-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 5-benzoyl-2,3,4,5tetrahydro-1,3-dimethyl-2,4-dioxo-6-phenyl-, ethyl ester (9CI) (CA INDEX

GI

The reaction of 3-alkyl(or aryl)pyrimidotriazinedione oxides I [R = Me, Et, 4-RlC6H4 (RI = H, Cl, Me, NO2)] with PhC.tplbond.CC02Et in PhMe gave the unexpected pyrcolopyrimidinediones II. The structures of II were supported by spectral data as well as by chemical means and were confirmed

Page 132

L16 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) single-crystal x-ray diffractions. On the other hand, the reaction of I (R = H) with PhC.tplbond.CCO2Et yielded pyrrolopyrimidinedioneIII.

L16 ANSWER 47 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN NAME) (Continued)

85143-80-2 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 6-[(4-chlorophenyl)amino]-2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX

85143-81-3 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-6-[(4-methylphenyl)amino]-2,4-dioxo-, methyl ester (9CI) (CA

85143-82-4 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-6-[{4-methoxyphenyl}amino]-1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 47 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:143378 CAPLUS

DOCUMENT NUMBER: 98:143378 CAPLUS

98:143378 A new synthesis of pyrimido{5,4-e}-as-triazine

4-oxides and their ring transformation to
pyrcolo[3,2-d]pyrimidines

AUTHOR(S): Nishigaki, Sadao: Kanazawa, Hashime; Kanamori, Yukako:
Ichiba, Misuzu; Senga, Keitaro

CORPORATE SOURCE: Sch. Med., Keio Univ., Tokyo, 160, Japan
Journal of Heterocyclic Chemistry (1982),
19(6), 1309-12

CODEN: JHTCAD; ISSN: 0022-152X

CODEN: JHTCAD; ISSN: 0022-152X
JOURNAL
LANGUAGE: Siglish
OTHER SOURCE(S): CASKEACT 98:143378

TT 85143-78-8P 85143-83-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent)
(preparation and saponification-decarboxylation of)
RN 85143-78-8 CAPLUS
CN 1H-Pytrolo[3,2-d]pytimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-6-(phenylamino)-, methyl ester (9CI) (CA INDEX NAME)

85143-83-5 CAPLUS 1H-Pyrrolo(3,2-d)pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-6-(phenylamino)-, ethyl ester (9CI) (CA INDEX NAME)

85143-79-9P 85143-80-2P 85143-81-3P
85143-82-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
85143-79-9 CAPLUS
HR-Pycrolo[3, 2-d]pyrimidine-7-carboxylic acid. 6-[(4-bromophenyl)amino]2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX

L16 ANSWER 47 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

GI

Reaction of 6-hydrazino-1,3-dimethyluracil with HC(OEt)3 gave (ethoxymethylenehydrazino)dimethyluracil I, which was treated with arylaminose to give (arylaminosethylenehydrazino)dimethyluracils II (R = H, Br, Cl, Me, MeO). Nitrosative cyclization of II with NaNO2 afforded arylaminofervenulin oxides III. Reaction of III with acetylenic esters yielded dimethylpyrrolopyrimidinediones IV (RI = Me, Et).

L16 ANSMER 48 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:4515 CAPLUS
DOCUMENT NUMBER: 98:4515
New syntheses of pyrido(3,2-d)pyrimidines. (1)
AUTHOR(S): Senga, Keitaro: Fukami, Kiyoko: Kanazawa, Hashime:

Senga, Kettaror Fuxami, Kiyokor Kanazawa, Nishigaki, Sadao Sch. Med., Keio Univ., Tokyo, 160; Japan Journal of Heterocyclic Chemistry (1982), 19(4), 805-8 CODEN: JHTCAD: ISSN: 0022-152X CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

LANGUAGE: English 83848-77-5P

83848-77-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
83848-77-5 CAPLUS
HI-Pyrcolo(3,2-d)pyrimidine-7-carboxaldehyde, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-6-phenyl- (9CI) (CA INDEX NAME)

GI

New synthetic routes to pyrido[3,2-d]pyrimidines starting with 5-amino-1,3,6-trimethyluracil (I) or 1,3,6-trimethyl-5-nitrouracil (II) are described. Thus, condensation of I with arylaldehydes gave 5-arylideneamino-1,3,6-trimethyluracils, which upon heating with MeXNCH(OMe)2 afforded the pyridopyrimidinediones III  $\{R=(u_1)$  substituted phenyl] via 5-arylideneamino-1,3-dimethyl-6-(2-dimethylaminovinyl)uracils. Reaction of II with PhCH2CHO in the presence of base yielded III  $\{R=Ph\}$  and its 5-oxide.

L16 ANSWER 49 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

82734-37-0 CAPLUS
4H-Pyrrolo[3,2-d]pyrimidin-4-one, 7-[(diethylamino)methyl]-1,5-dihydro-2,6-dimethyl-,monohydrochloride (9C1) (CA INDEX NAME)

GI

$$R^1$$
 $N$ 
 $N$ 
 $R^3$ 
 $R^3$ 

The title compds. I (R = Et2N, Rl = R3 = H, Me, R2 = OH; R = piperidino, Me2N, Rl = R3 = Me, R2 = Me) were prepared in 42-75% yields by Mannich reactions of the appropriate pyrrolopyrimidines with RH. I (R = BuNH (III), 1-cyclohexen-1-ylethylamino (III) Rl = Me, R2 = OH, R3 = H; R = BuNH, R1 = Ph, R2 = Cl, R3 = H; R = 1-cyclohexen-1-ylethylamino, R1 = Ph, R2 = OH, 1-cyclohexen-1-ethylamino, R3 = H] were prepared in 30-93% yields by condensing the amines with pyrrolopyrimidinecarboxaldehyde to give Schiff bases which were reduced by NaBR4. II and III inhibited dihydrofolate reductase activity 82 and 95%, resp., at 10-5M concns.

L16 ANSWER 49 OF 60
ACCESSION NUMBER:
1982:492226 CAPLUS
DOCUMENT NUMBER:
1982:492226 CAPLUS
97:92226
Pycrolo[3, 2-d]pyrimidine derivatives. III.
7-Aminomethyl-substituted pycrolo[3, 2-d]pyrimidines
Modnikova, G. A.; Sizova, O. S.; Novitskii, K. Yu.;
Ryabokon, N. A.; Vlasova, T. M.; Chernov, V. A.
Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR
SOURCE:
Khimiko-Farmatsevticheskii Zhurnal (1982),
16(5), 548-52
CODEN: KHFZAN; ISSN: 0023-1134
ANGUAGE:
ANGUAGE:
Russian

DOUGHNI TYPE: JOURNAL
LANGUAGE: Russian
OTHER SOURCE(S): Russian
THER SOURCE(S): CASREACT 97:92226
T 82722-81-4P 82722-83-6P 82734-37-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 82722-81-4 CAPLUS
CN 5H-Pyrrolo[3,2-d]pyrimidine, 4-methoxy-2,6-dimethyl-7-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

82722-83-6 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-7-methanamine; 4-methoxy-N,N,2,6-tetramethyl-, compd. with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

82722-82-5 C12 H18 N4 O

CM 2

88-89-1 C6 H3 N3 O7

L16 ANSWER 50 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1981:462120 CAPLUS 95:62120 CAPLUS

AUTHOR (5):

TITLE:

95:62120
1,3-Dipolar cycloaddition of a thiazolo[5,4-d]pyrimidine l-oxide to dimethyl acetylenedicarboxylate. New ring transformation to a pyrrolo[3,2-d]pyrimidine via a pyrimido[4,5-b][1,4]thiazine
Senga, Keitaro: Ichiba, Misuzu; Kanazawa, Hashime: Nishlgaki, Sadao
Pharm. Inst., Keio Univ., Tokyo, 160, Japan Journal of the Chemical Society, Chemical Communications (1981), (6), 278-80
CODEN: JCCCAT: ISSN: 0022-4936
Journal

CORPORATE SOURCE:

DOCUMENT TYPE: English LANGUAGE:

71411-49-9P

71411-49-9P
Rt. SPN (Synthetic preparation): PREF (Preparation)
(preparation of, by ring contraction of pyrimidothiazine)
71411-49-9 CAPUS
HI-Pyrclo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, dimethyl ester (9CI) (CA INDEX NAME)

GI

1.3-Bipolar cycloaddn. of thiazolopy:inidine oxide I with MeOZCC.tplbond.CCO2Me in refluxing MeOH for 10 h gave 38% pyrimidothiazine Iland 17% pyrrolopyrimidine III, in addition to a small amount of

L16 ANSWER 50 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) thiobacbituric acid. The proposal that III is formed from II was proved by refluxing II in MeOH for 3 h to give 75% III.

L16 ANSWER 51 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

74366-94-2 CAPLUS SH-Pyrrolo(3,2-d)pyrimidine-7-carboxylic acid, 4,6-diamino-, ethyl ester (9CI) (CA INDEX NAME)

74366-96-4 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidin-4-amine, 6-ethyl-7-methyl- (9CI) (CA INDEX NAME)

AB Treating 7-(acylamino)furazano[3,4-d]pyrimidines (e.g., I) with enamines Page 135

L16 ANSWER 51 OF 60
ACCESSION NUMBER:
DOCUMENT NUMBER:
1980:568223 CAPLUS
93:168223
Synthesis of pyrrolo[3,2-d]pyrimidines from
furazano[3,4-d]pyrimidines via enolate and ene adducts
Crane, L. Eric: Beardsley, G. Peter: Naki, Yoshifumi
Dep. Chem., Princeton Univ., Princeton, NJ, 08540, USA
JOURNAL of Organic Chemistry (1980), 45[19],
3827-31
COMPN. JOURNAL JESN. 0022-3263

3827-31
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:168223
11 74366-99-5P 74366-92-0P 74366-93-1P
74366-94-2P 74366-96-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 74366-99-5 CAPLUS
CN 5H-Pyrcolo(3,2-d)pyrimidine-7-carboxylic acid, 4,6-diamino-2-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)

74366-92-0 CAPLUS Ethanone, 1-(4-amino-6-methyl-5H-pyrrolo[3,2-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

74366-93-1 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 4-amino-6-methyl-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 51 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) and enclates gave intermediates for unequivocal transformation into pyrrolo[3,2-d]pyrimidines (e.g., II and III).

L16 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1979:611369 CAPLUS
91:211369
New synthesis of pyrrolo{3,2-d}pyrimidines
(9-deazapurines) by the 1,3-dipolar cycloaddition
reaction of fervenulin 4-oxides with acetylenic esters
Senga, Keitaro: Ichiba, Misuzu, Nishigaki, Sadao
Source:
Source:
Source:
Source:
Source:
Source:
Source:
Journal of Organic Chemistry (1979), 44(22),
3830-4
CODEN: JOCEAN; ISSN: 0022-3263
Journal .
LANGUAGE:
English
IT 67775-83-1 P 67812-61-7P 71411-69-9P
71411-50-2P 71411-51-3P 71411-52-4P
71411-50-4P 71411-61-5P
RL: SSN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 67775-83-1 CAPLUS
CN 1H-Pycrolo{3,2-d}pyrimidine-7-carboxylic acid, 6-ethyl-2,3,4,5-tetrahydro1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

67812-61-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3,6-trimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

71411-49-9 CAPLUS 1H-Pyrcolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-, dimethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

71411-56-8 CAPLUS HH-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3-dimethyl-2,4-dioxo-6-phenyl-, methyl ester (9CI) (CA INDEX NAME)

71411-59-1 CAPUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3,5,6-tetramethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

Page 136

L16 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

71411-50-2 CAPLUS 1H-Pyrrolo[3,2-d]pyrimidine-6,7-dicarboxylic acid, 2,3,4,5-tetrahydro-1,3,5-trimethyl-2,4-dioxo-, dimethyl ester (9CI) (CA INDEX NAME)

71411-51-3 CAPLUS
1H-Pyrrolo(3,2-d)pyrimidine-7-carboxylic acid, 6-formyl-2,3,4,5-tetrahydro1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

71411-52-4 CAPLUS lH-Pyrrolo[3,2-d]pyrimidine-6-acetic acid, 2,3,4,5-tetrahydro-7-(methoxycarbonyl)-1,3,5-trimethyl- $\alpha$ ,2,4-trioxo-, methyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 71411-60-4 CAPLUS
CN 1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 6-ethyl-2,3,4,5-tetrahydro1,3,5-trimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

71411-61-5 CAPLUS 1H-Pyrrolo(3,2-d)pyrimidine-6-acetic acid, 2,3,4,5-tetrahydro-7-(methoxycarbonyl)-1,3-dimethyl-a,2,4-trioxo-, methyl ester (9CI) (CA INDEX NAME)

1,3-Dipolar cycloaddn. reaction of fervenulin 4-oxides I (R = Ph, Me, Et, H) with MeO2CC.tplbond.CCO2Me and HC.tplbond.CCO2Me gave a variety of pyrrolo $\{3,2-d\}$ pyrimidines (9-deazapurines) in a new synthetic route.

L16 ANSWER 53 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:87179 CAPLUS

DOCUMENT NUMBER: 90:87179

Intranolecular reactions of enaminonitriles. A new synthesis of β-aminopyrroles and related heterocycles

AUTHOR(S): Murata, Tadakazu; Sugawara, Tohcu; Ukawa, Kiyoshi

CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

Chemical & Pharmaceutical Bulletin (1978), 26(10), 3080-100

CODEN: COENT CPBTAL: ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: CASREACT 90:87179

CHEM SOURCE(S): CASREACT 90:87179

R1: SPN (Synthetic preparation); PREP (Preparation)

Queenaction of)

(preparation of)
51618-12-3 CAPUUS
31-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 4,5-dihydro-3,6-dimethyl-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

51618-13-4 CAPLUS
3H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 4,5-dihydro-2,3,6-trimethyl-4-oxo-, ethyl ester (9C1) (CA INDEX NAME)

51618-14-5 CAPLUS .

1M-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-3,6-dimethyl-2,4-dioxo-, ethyl ester (9C1) (CA INDEX NAME)

1.16 ANSWER 53 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

L16 ANSWER 53 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

CAPLUS

HH-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-3,6-dimethyl-4-oxo-2-thioxo-, ethyl ester (9CI) (CA INDEX NAME)

GI

Several new  $\beta$ -aminopyrcoles,  $\beta$ -aminoindoles, pyrido[3,4-b]indoles, and pyrrolo[3,2-b]pyridines were prepared by a sequence of ceactions involving intramol, addition of an enamine to a cyano group. Enamine I, prepared from tert-butylaminocyanoacetate and 1,3-cyclohexanedione, cyclized after substitution of the methine by Et bromoacetate in the presence of NaoSt to afford 2-tert-butoxycarbonyl=2-tert-butoxycarbonyl=4-by-1-imino-4-oxo-4,5,6,7-tertahydroindoline. Reaction of I with Me vinyl ketone-sodium ethoxide furnished 3-amino-2-tert-butoxycarbonyl-4-oxo-4,5,6,7-tetrahydroindole. Similarly certain 3-aminopyrcoles and pyrcolo[3,2-b]pyridines were prepared from Eto2CCH:CMANICH(CN)COZMe2 (II) prepared from actoacetate and tert-Bu aminocyanoacetate. Enamines obtained by condensation of Et acetoacetate with aminocyanoacetamides underwent cyclizations to 3-amino-2-carbamoylpyrroles upon treatment with base. Several new 3-amino-pyrcoles thus prepared were converted to new pyrcolo[3,2-d] and pyrcolo[3,4-d] d)pyrimidines. A steric effect of the neighboring butoxycarbonyl group in II was also briefly discussed.

L16 ANSWER 54 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1978:546866 CAPLUS
89:146866
The 1,3-dipolar cycloaddition reaction of fervenulin
4-oxides with timethyl acetylenedicarboxylate, a novel
synthesis of pyrcolo[3,2-d]pyrimidines
(9-deazapurines)
CORPORATE SOURCE: Senga, Keitaro; Ichiba, Misuzu; Nishigaki, Sadao
Pharm. Inst., Keio Univ., Tokyo, Japan
Heterocycles (1978), 9(7), 793-5
CODEN: HTCYAN; ISSN: 0385-5414
DOCUMENT TYPE:
LANGUAGE: English
IT 67775-83-1 CAPLUS
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
R67775-83-1 CAPLUS
CN 1H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 6-ethyl-2,3,4,5-tetrahydro1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

67812-61-7 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-1,3,6-trimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

Pyrrolopycimidinediones I (R = H, Me, Et) were obtained in 55-641 yields by cycloaddn. of MeO2CC.tplbond.CCO2Me to the corresponding fervenulin

L16 ANSWER 54 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
4-oxides. The structure of I (R = H) was confirmed by methylation with
Me2NCH(OMe)2 to give the known 5-Me deriv.

LIG ANSWER 55 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN

66127-49-9 CAPLUS
HH-Pyrcolo(3,2-d)pyrimidine-2,4(3H,5H)-dione, 7-methyl-6-phenyl-1,3-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

(Continued)

GI

Pycrolopyrimidinediones I (R = H, Me, CH2Ph; R1 = Me, Ph, 4-O2NC6H4, 4-MeOC6H4; R2 = H, Me, Ph) were obtained in 70-80N yield by thermal S extrusion from II. The 7-di-Me analogs of II (R = H, Me, R1 = R2 = Me) did not undergo the S extrusion. II were obtained by treating 6-thiouramils with halo compds.

L16 ANSWER 55 OF 60
ACCESSION NUMBER:
1978:152556 CAPLUS
DOCUMENT NUMBER:
88:152556
TITLE:
9-Deazapurines from pyrimido[4,
AUTHOR(5):
CORPORATE SOURCE:
1nst. Pharm., Feele Univ. Berli 88:152556
9-Deazapurines from pyrimido(4,5-b){1,4}thiazines
Fenner, Helmut: Motschall, Annegrete
Inst. Pharm., Freie Univ. Berlin, Berlin, Fed. Rep. | Ger. |

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

66127-47-7 CAPLUS |H-Pyrcolo[3,2-d]pyrimidine-2,4(3H,5H)-dione, 7-methyl-6-phenyl- (9CI) (CA INDEX NAME)

66127-48-9 CAPLUS HH-Pyrrolo[3,2-d]pyrimidine-2,4(3H,5H)-dione, 1,3,7-trimethyl-6-phenyl-[9C1] (CA INDEX NAME)

L16 ANSWER 56 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1974:95872 CAPLUS COPYRIGHT 2007 ACS ON STN 80:95872

DOCUMENT NUMBER: TITLE:

80:95872
Intramolecular reactions of enaminonitriles. II.
Synthesis of new 3-aminopyrcole-2-carboxamides. New
route to pyrrolo[3,2-d]pyrimidines
Murata, Tadakazur Ukawa, Kiyoshi
Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan
Chemical & Pharmaceutical Bulletin (1974),
22(1), 240-1
CODEN: CPBTAL; ISSN: 0009-2363
Journal

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: Journal

JOURNAL TYPE: JOURNAL LANGUAGE: English
IT 51618-12-3P 51618-13-4P 51618-14-5P
51618-15-6P
RI: SPM (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51618-12-3 CAPLUS
CN 3H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 4,5-dihydro-3,6-dimethyl-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

S1618-13-4 CAPLUS
3H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 4,5-dihydro-2,3,6-trimethyl-4-oxo-, ethyl-ester (9C1) (CA INDEX NAME)

51618-14-5 CAPLUS
1H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-3,6-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 56 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

51618-15-6 CAPLUS
1H-Pyrcolo[3,2-d]pyrimidine-7-carboxylic acid, 2,3,4,5-tetrahydro-3,6-dimethyl-4-oxo-2-thioxo-, ethyl ester [9CI) (CA INDEX NAME)

For diagram(s), see printed CA Issue. 3-Aminopycroles I [R=R1=H:R-He,R1=H:RR1=(CH2)5] were prepared in 30-751 yields by cyclizing Eto2CCH:CMeNHC(CN)CONRRI with EtoNa in EtoN. I were readily converted to the pycrolo[3,2-d]pycimidines II and III (X=0,S) by treating with suitable reagents. Treating I (R-Me,R1=H) with NaNO2 in aqueous HCl gave the pycrolotriazine IV.

1964:494243 CAPLUS
61:84243
61:4671g-h,14672a
Chemical structure of albomycin. VIII. Transformations associated with the presence of pyrimidine base in the albomycin molecule
Lavrenova, G. I.; Poddubnaya, N. A.
M. V. Lomonosov State Univ., Moscow
Zhurnal Obshchei Khmii (1964), 34(9),
2864-8
CODEN: ZOKHA4: ISSN: 0044-660X DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: AUTHOR (5): CORPORATE SOURCE: SOURCE:

CODEN: ZOKHA4: ISSN: 0044-460X DOCUMENT TYPE:

L16 ANSWER 58 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1964:484243 CAPLUS

98562-99-3 98638-93-8 (Derived f---

98002-39-3 98030-39-8 (Derived from data in the 7th Collective Formula Index (1962-1966)) 98562-99-3 CAPLUS [(6-Catobow-2,4-diethoxy-5H-pyrrolo[3,2-d]pyrimidin-7-yl)methyl]trimethylammonium iodide, ethyl ester (7CI) (CA INDEX NAME)

98638-93-8 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-6-carboxylic acid, 7-[(dimethylamino)methyl)-2,4-diethoxy-; ethyl ester (7CI) (CA INDEX NAME)

For diagram(s), see printed CA Issue. cf. CA 60, 1750d, 1976q. The active fraction A-2 of albomycin was hydrolyzed 2 hrs. at 90° with saturated aqueous Ba(OH)2. The solution was acidified with H2SO4, the BaSO4 filtered off, and the filtrate evaporated

ultraviolet spectrum, chromatographic and electrophoretic behavior, and Ac derivative identify the residue as  $2\text{-}oxo-6\text{-}methylaminopyrimidine}$  (I).

L16 ANSWER 57 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1973:147895 CAPLUS 78:147895

TITLE:

AUTHOR(S):

78:147895
Pycrolo[3,2-d]pycimidines
Sokolova, V. N.; Modnikova, G. A.; Magidson, O. Yu.;
Shcherbakova, L. I.; Pershin, G. N.; Zykova, T. N.
Yses. Nauchno-Issled. Khim.-Farm. Inst. im.
Ordzhonikidze, Moscow, USSR
Khimiko-Farmatsevticheskii Zhurnal (1973),
7(3), 19-24
CODEN: KHEZAN; ISSN: 0023-1134 CORPORATE SOURCE:

SOURCE:

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal
LANGUAGE: Russian

IT 41040-23-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 41040-23-7 CAPLUS
CN SH-Pyrcolo[3,2-d]pyrimidine, 7-[(4-methoxyphenyl)methyl]-4-[[(4-methoxyphenyl)methyl]thio]-2,6-dimethyl- (9CI) (CA INDEX NAME)

For diagram(s), see printed CA Issue.
Pycrolo[3,2-d]pyrimidines (1; R = ELZnCH2CH2NH, PhCH2NH, PhCH2CH2NH,
4-methyl-1-piperazinyl), II, III, and IV were prepared in 29-911 yields by
treatment of (R = C1) with the appropriate amine. Alkoxy derivs. (1; R =
MeO, EtO, BLO, ELZNCH2CH2O) were obtained in 23-644 yields by treatment of
I (R = C1) with RONa in ROH. Alkylthio derivs. [1; R = Bus, Me2CHCH2S,
Me(CH214-7CH2S NCCH2S, CH2:CHCH2S, HC:CCH2S, PhCH2S, P-CLC6- h4CH2S] were
prepared in 25-74% yields by alkylaton of I (R = SH) by RBr.

L16 ANSWER 59 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1964:484242 CAPLUS

OI: 94242

OXIGINAL REFERENCE NO.: 61:14670h, 14671a-g
Nucleic acid antagonists. VII. Synthesis and Characterization of 1,4,6-triazaindenes (SH-pyrrolo[3,2-d])primidines)

AUTHOR(S): Imai. Kinichi
CORPORATE SOURCE: Takeda Chem. Ind., Ltd., Osaka, Japan
Chemical & Pharmaceutical Bulletin (1964), 12(9), 1030-42
COODE: CPBTAL, ISSN: 0009-2363

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT 98562-99-3P, Ammonium, [(6-carboxy-2,4-diethoxy-5H-pyrrolo[3,2-d])pyrimidin-7-yl)nethyllytrimethyl. iodide, Et ester 98638-93-8P,
SH-Pyrrolo[3,2-d]pyrimidine-6-carboxylic acid. 7-[(dimethylamino)methyl]-2,4-diethoxy-, ethyl ester
RL: PREP (Preparation)
(preparation of)
RN 98562-99-3 CAPINE

(preparation of)
98562-99-3 CAPUS
([6-Caebow-2, 4-diethosy-5H-pyrrolo[3,2-d]pyrimidin-7-yl)methyl]trimethylammonium iodide, ethyl ester (7CI) (CA INDEX NAME)

98638-93-8 CAPLUS 5H-Pyrrolo[3,2-d]pyrimidine-6-carboxylic acid, 7-[(dimethylamino)methyl]-2,4-diethoxy-, ethyl ester (7CI) (CA INDEX NAME)

For diagram(s), see printed CA Issue.

2-Carbethoxy-5,7-diethoxy-1,4,6-triazaindene (I) (2 g.) and 10 cc. HCl refluxed 6 h. gave 1.3 g. 2-Co2H derivative (II) of 5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-triazaindene (III), m. above 360° (H2O). II (1 g.) and 100 mg. Cu powder heated at 330-d0 until the CO2 evolution ceased gave 600 mg. III, m. above 360° (H2O). I (1 g.) and 500 mg. Cu powder heated 10 min. in vacuo at 220-d0' yielded 700 mg.

2-CO2Et derivative (IV) of 4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-5,7-dioxo-4,5,6,7-tetrahydro-1,4,6-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-diethyl-6,4-di

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116 ANSWER 59 0F 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) triazene (V), m. 205' (aq. EtOH). IV (840 mg.) in 15 cc. EtOH heated 2 h. on the water bath with 1.5 g. NaOH in 2 cc. H20 gave 700 mg. 2-COZH deriv. (VI) of V, m. 306' (MeOH). VI (150 mg.) heated at 310-20' during 10 min. yielded 100 mg. V, m. 142' (repptd. from CoH6 with petr. ether). IV (300 mg.), 5 cc. EtOH, and 3 cc. 28' MH40H heated 5 h. in a sealed tube at 140-50' gave 200 mg. 2-CONN2 deriv. of V. crystal powder, m. 298' (aq. EtOH). 5-Me deriv. (VII) (4.7 g.) of 2-methyl-7-oxo-6,7-dihydro-1,4,6-triazaindene (VIII) refluxed 3 h. with 27 cc. POC13 yielded 4.8 g. 5-Me deriv. (IX) of X, m. 178' (decompn.). III (5 g.) and 24 cc. POC13 gave similarly 4 g. X, m. 178' (decompn.). III (5 g.) and 24 cc. pycophosphoryl chloride (upper layer of a mixt. prepd. by heating POC13 with 0.5 equiv. H20 1.5 h.) yielded 2.1 g. XI, m. 25-8' (aq. MeOH). 7-Oxo-6,7-dihydro-1,4,6-triazaindene (XII), m. 224' (501 MeOH). III (3 g.) and 24 cc. pycophosphoryl chloride (upper layer of a mixt. prepd. by heating POC13 with 0.5 equiv. H20 1.5 h.) yielded 2.1 g. XI, m. 25-8' (aq. MeOH). 7-Oxo-6,7-dihydro-1,4,6-triazaindene (XIII) (850 mg.) refluxed 2 h. with 20 cc. POC13 gave 7-ochor-1,4,6-triazaindene (XIII) (850 mg.) refluxed 4 h. yielded 1.6 g. 5-C1 deriv. (XIV) of XIII. m. 270' (decompn.) (H20). XI (500 mg.) and 400 mg. C5(MH2)2 in 13 cc. EtOH refluxed 5 h. yave 250 mg. 50'-dimercapto-1,4,6-triazaindene (XIII) m. 106-8' (decompn.) follow 1 h. pt 20-5' psee 150 mg. V. XV (700 mg.) and 50' (R20) XIII (90 h.) yielded 2.1 g. 5 psee 150 mg. V. XV (700 mg.) and 50' (R20) XIII (90 h.) yielded 2.1 g. 5 psee 150 mg. V. XV (700 mg.) and 50' (XVII) pale yellow needles, m. above 300' (H20). VII (700 mg.). 314-15' (decompn.) (301 MeOH). IX (1.5 g.), 40 mg. Cu powder, m. 314-15' (decompn.) (301 MeOH). IX (1.5 g.), 40 mg. Cu powder, m. 314-15' (decompn.) (301 MeOH). IX (1.5 g.), 40 mg. Cu powder, m. 314-15' (decompn.) (301 MeOH). IX (1.5 g.), 40 mg. Cu powder, m. 314-15' (

L16 ANSWER 60 OF 60 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1955:73579 CAPLUS COPYRIGHT 2007 ACS ON STN 49:73579 49:73579
49:14002b-i,14003a-i,14004a-b
1,2.4,6-Tetraazaindenes and 1,4,6-triazaindan-2-ones
from 5-aminopyrimidines
Rose, F. L.
Imperial Chem. Inds. Ltd., Manchester, UK
Journal of the Chemical Society (1954)
4116-26
CODEN: JCSOA9: 15594, 0262 DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal LANGUAGE: Journal LANGUAGE: Journal 18 860721-15-9P, SH-Pycrolo[3,2-d]pyrimidine-7-carboxylic acid, 2-amino-6,7-dihydro-4-methyl-6-oxo-, ethyl ester, hydrochloride 860721-17-1P, SH-Pycrolo[3,2-d]pyrimidine-7-carboxylic acid, 4-dimethylamino-6,7-dihydro-2-methyl-6-oxo-, ethyl ester RL: PREP (Preparation)

(preparation of)
860721-15-9 CAPLUS
5H-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 2-amino-6,7-dihydro-4-methyl-6-oxo-, ethyl ester, hydrochloride (5CI) (CA INDEX NAME)

HC1

860721-17-1 CAPLUS SH-Pyrrolo[3,2-d]pyrimidine-7-carboxylic acid, 4-dimethylamino-6,7-dihydro-2-methyl-6-oxor, ethyl ester (SCI) (CA INDEX NAME)

For diagram(s), see printed CA Issue. cf. C.A. 47, 5403i. The formation of the 1,2,4,6-tetraazaindenes (I) through the diazotization of 5-amino-4-methylpyrimidines (II) was undertaken in order to prepare members of the sories isosteric with the natural purines, and perhaps form a basis for new chemotherapeutic agents. 6-Me groups have been introduced into several 5-nitropyrimidines by substitution of a diethyl malonate radical for Cl, followed by degradative

L16 ANSWER 59 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Me2NH, 1.5 cc. AcOH, and 440 mg. 37% aq. CH2O and the mixt. heated 2 h. on
the water bath and kept overnight yielded 500 mg. 3-Me2NCH2 deriv. (XXV)
of I, needles, m. 103-4" (petr. ether). XXV (200 mg.), 2 cc. EtOH,
and 100 mg. MeI gave XXV.MeI, needles, m. 180" (1:2 Me2CO-AcOEt).
The UV spectra of I, IV, VIII, XVIII, XXII, XXII, XXII, XXIV, XXIV, XXIX, and
the dihydro deriv. of XXIV.HCl, and the IR spectrum of XXIV were recorded.

ANSWER 60 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) hydrolyses to yield intermediates not available by direct nitration. The following is the property of the content of the cont

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116 ANSWER 60 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

m. 48-50°, reduced to di-Et 5-amino-2-chloro-6-methyl-4pyrimidinylpalonate (XI), m. 141°. Acidification of a refluxing
soln. of XI and Na2CO3 yielded a ppt. which on heating with H20 afforded
5-chloro-3-ethoxycarbonyl-7-methyl-1,4,6-triazaindan-2-one, decomp. above
200°. Prepd. as VIII was di-Et a-(2-chloro-6-methyl-5-nitro4-pyrimidinyl)-a-p-chlorophenylazomalonate (XII), from p-clC66H4NH2
and XI, m. 98°. NaOH and XII in refluxing EUCH yielded Et
a-p-chlorophenylazo-a-(2-hydroxy-6-methyl-5-nitro-4pyrimidinyl)actate. m. 234°. V and 4,6-di.chloro-2-methyl-5nitropyriadine yielded di-Et a-(4-chloro-2-methyl-5-nitro-6pyrimidinyl)malonate (XIII), whose Na salt m. 150-2°; a small amt.
b. 140-2°/0.01 mm. before violently decomps. XIII and MeZNH
afforded di-Et 6-dienthylamino-2-methyl-5-nitro-4-pyrimidinylmalonate (XII),
89°. Reduction of XII in MeOH-Raney Ni afforded di-Et 5-amino-4-chloro-2-methyl-6-pyrimidinylmalonate (XIV), m. 90°.
which on treatment with hot aq. Na2CO3 yielded 7-chloro-3-ethoxycarbonyl-5methyl-1,4,6-triazaindan-2-one (XV), decompd. on heating. XV, heated with
MeZNH, afforded, on neutralization, the 7-dimechylamino analog of XV, no.
m.p. XIII, refluxed with 4N IRCl, and then evapd. to dryness, yielded
4-hydroxy-2,6-dimethyl-5-nitropyrimidine (XV), xv. 222 XV
reductory-1,6-dimethyl-5-nitropyrimidine (XV), xv. 222 XV
2,6-dimethyl-1',2',3'-ovadiazolof5',4',4,5)pyrimidine, n. 188°.
4,6-Dichloro-5-nitropyrimidine and V yielded di-Et 4-chloro-5-nitro-6pyrimidinylnalonate, m. 104°, which on refluxing with an, HCl.
afforded 4-hydroxy-6-methyl-5-nitropyrimidine and V yielded di-Et 4-chloro-5-nitro-6pyrimidinylnalonate, m. 104°, which on refluxing with an, HCl.
afforded 4-brotro and aminopyrimidine and V yielded di-Et 4-chloro-5-nitro-6pyrimidinylnalono-5-mitropyrimidine and V yielded di-Et 4-chloro-6dimethyl-5-nitropyrimidine and V yielded di-Et 4-chloro-6dimethyl-5-nitropyrimidine and V yielded di-Et 3-mino

L16 ANSWER 60 OF 60 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) nitropycimidine, m. 198°. Addn. of Me2SO4 to the mercapto compd. afforded 4-benzylmethylamino-6-methyl-2-methylthio-5-nitropycimidine, m. 90°. Reduction with Raney Ni yielded the 5-amino analog which on treatment with Ac2O formed the 5-Ac deriv., m. 102°. NaNO2 added to a soln. of XIX in HCl was cooled in ice and NaI in H2O added to yield 2-dimethylamino-6-methyl-1',2',3'-triazolo[5',4',4,5]pyrimidine 1'-methiodide, decomp. 140°. XXI was reduced in Budh with Raney Ni. AcOH and H2O were used to dissolve the diamine. The product, after filtration and concn. was diazotized with NaNO2 to yield 1.6-di.6-dimethylamino-1',2',3'-triazolo[5',4',4,5]pyrimid-1'-yl]hexane, m. 183-4°.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	$\mathtt{TOTAL}$
	ENTRY	SESSION
FULL ESTIMATED COST	347.50	525.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-46.80	-46.80

STN INTERNATIONAL LOGOFF AT 22:00:23 ON 31 AUG 2007